CS201 RECITATION 1

Introduction to C++



Part 1 : Writing and debugging code with CodeBlocks

Part 2 : Porting, compiling and testing in Dijkstra

Part 3: Using and understanding header files

Part 1: Writing and debugging code with CodeBlocks

Consider the following class:

```
#include <string>
using std::string;
class GradeBook {
public:
      GradeBook (string name) {
          setCourseName ( name );
      void setCourseName (string name) {
          if (name.length() <= 25)</pre>
                       courseName = name;
          else
                       courseName = name.substr (0,25);
      string getCourseName() {
          return courseName;
private:
      string courseName;
};
```

Let's modify the GradeBook class such that

- it keeps the midterm, final, homework, and quiz grades of a particular student as its data members
- it calculates a letter grade of the student using the computeFinalGrade member function that
 - takes four input grades from the user
 - computes the average grade acc. to the following weights
 - midterm (30%), final (35%), homework (15%), quiz (20%)
 - assigns a letter grade according to the table

90 ≤ Grade	А
80 ≤ Grade ≤ 89	В
70 ≤ Grade ≤ 79	С
60 ≤ Grade ≤ 69	D
Grade < 60	F
Otherwise	U (unkown)

Let's do it using CodeBlocks

- CodeBlocks is an integrated development environment.
- http://www.codeblocks.org/downloads/26
- Make sure you download the IDE with its MinGW compiler.









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	27 cin >> midtermGrade;						
	28 cout << "Enter the linal grade : "; oin No finalGrade;						
	30 gott << "Enter the guiz grade : ":						
	31 cin >> quizGrade;						
	32 cout << "Enter the homework grade : ";						
	33 cin >> hwGrade;						
	34						
	35 cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << end						
	36 return '0'; //Since we <u>clon</u> 't calculate the letter grade yet it returns '0' (Unknown)						
	37						
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	41 double midtermGrade, finalGrade, quizGrade, hwGrade;						
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	🕴 📝 Code::Blocks 🛛 🔾 Search results 🛛 🔨 Cccc 👋 🥎 Build log 🗙 🦿 Build messages 🖂 게 CppCheck 🖂 🤺 CppCheck messages 🔗 🏹 Cscope 🗡 🚫 Debugger 🕨						
	mingw32-g++.exe -Wall -g -c C:\Users\Tunc\CS201\Project1\GradeBook.cpp -o obj\Debug\GradeBook.o mingw32-g++.exe -o bin\Debug\Project1.exe obj\Debug\GradeBook.o Output file is bin\Debug\Project1.exe with size 959.40 KB						
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GradeBook.cpp [Project1] - Code::B	::Blocks 13.12	
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GradeBook::	▼ computeFinalGrade() : char ▼	
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▶ ₩3 63 ₩3 <i>4</i> 3 63 ₩ 11 Ø		
nagement X	GradeBack con X	
Projects Symbols Files >	a point of the string.	
Workspace	5 using std::cout;	
Project1	6 using std::endl;	
Sources	7	
GradeBook.cpp	8 class GradeBook (
	9 public:	
	11 setCourseName (name);	
	14 void setCourseName (string name) {	
	16 $courseName = name:$	
	17 else	
	18 courseName = name.substr (0, 25);	
	19 -)	
	20 31 string getCourseName() /	
	22 return courseName;	
	23 - }	
	24	
	25 char computeFinalGrade() {	
	27 cin X midtermGrade: ")	
	28 Cont << "Enter the final grade : ";	
	29 cin >> finalGrade;	
	30 cout << "Enter the quiz grade : ";	
	31 cin >> quizGrade;	
	33 cin >> b@rade:	
	34	
	35 cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl	
	36 return 'U'; //Since we <u>didn</u> 't calculate the letter grade yet it returns 'U' (Unknown)	
	38	
	39 private:	
	were laid and and dealered in this seems	
	rior. Cin was not declared in this scope	
	Logs & others X	
	ፋ 📝 Code::Blocks 🛛 🔾 Search results 🔍 📝 Cc	
	File Line Message	
	C:\Users\Tunc\ 27 error: 'cin' was not declared in this scope	
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/sers\Tunc\CS201\Project1\GradeB	Book.cpp Windows (CR+LF) default Line 27, Column 1 Insert Read/Write default 🔙	





*GradeBook.cpp [Project1] - Code	Blocks 13.12		-	the second se		X
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<global></global>		int		•		
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						_
	*GradeBook.cpp ×					
Projects Symbols Files	14					*
Workspace	15	void setCourseName (string name)	{			
	17	<pre>ii (name.length() <= 25) courseName = name:</pre>				
GradeBook.cpp	18	else				
	19	courseName = name.substr	(0, 25);			
	20 -	}				
	21					
	22	string getCourseName() {				
	23	recurn coursename;				
	25	1				
	26	<pre>char computeFinalGrade() {</pre>				
	27	cout << "Enter the midterm g	rade : ";			
	28	<pre>cin >> midtermGrade;</pre>				
	29	cout << "Enter the final grad	de : ";			
	30	cin >> finalGrade;				
	32	cout << "Inter the quiz grade	e : ";			
	33	cout << "Enter the homework	grade : ";			
	34	cin >> hwGrade;	,			
	35					
	36	cout << "The grades are " <<	midtermGrad	e << ", " << finalGrade << ", " << qui:	zGrade << ", " << hwGrade << endl	1
	37	return 'U'; //Since we didn'	t calculate	the letter grade yet it returns 'U' (U	nknown)	=
	39	ł				
	40 priv	ate:				
	41	string courseName;				
	42	double midtermGrade, finalGrade,	quizGrade,	hwGrade;		
	43 -};					
	45 = int	main() {				
	46	GradeBook gb ("CS 201");				
	47	cout << "Course created with cou:	rse name " 🗸	< gb.getCourseName() << endl;		
	48					
	49	gb.				
	50	(computeFinalGrade(): char	l gr	· •		
		courseName: string				
		finalGrade: double	- 11	🗋 computeFin:	al Grada () ·	
	Logs & others	(getCourseName(): string	1 \	el compacer TH	areraue().	
	Code::Blocks	<pre>Image: GradeBook():</pre>	uild k			
	Process terminate	hwGrade: double	(s))			
		midtermGrade: double				
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Course created with course name CS 201	
Enter the midterm grade : 90	
Projects Symbols Enter the guild grade : 05	
Workspace Enter the homework grade : 65	^
Project1 The grades are 90, 80, 85, 65	
Sources Process Peturnet 0 (000) execution time - 22.177 s	
<pre><< hwGrade.<<</pre>	endl
·	=
39	
40 private:	
41 string courseName;	
43 -3;	
44	
45 = int main() (
<pre>46 Gradebox gp ("CS 201"); 47 cout << "Course created with course name " << gb.getCourseName() << end;</pre>	
48	
49 gb.computeFinalGrade();	
50 return 0;	
	•
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Frocess terminated with status o (o minute(s), Zs second(s))	^
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🖁 GradeBook.cpp [Project1] - Code::I	Blocks 13.12							
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Management X	GradeBook.							
In the second	14							
Workspace	15	void setCourseName (string name) (
Project1	16	if (name.length) $\langle z \rangle$						
Sources	17	courseName = name;						
GradeBook.cpp	18	else						
	19	courseName = name.substr (0, 25);						
	20	- }						
	21							
	22	string getCourseName() {						
	23	return courseName;						
	24	aoubre overallerade;						
	25							
	26	char computeFinalGrade() {						
	27	double overallGrade;						
	28	<pre>cout << "Enter the midterm grade : ";</pre>						
	29	cin >> midtermGrade;						
	30	<pre>cout << "Enter the final grade : ";</pre>						
	31	cin >> finalGrade;						
	32	cout << "inter the quiz grade : ";						
	33	chi >> quizerade;						
	34	double the nonework grade : ";						
	36	E E						
	37	cont // "The grades are " // midtermGrade // " " // finalGrade // " " // guizGrade // " " // huGrade // endl						
	38	court of the grades are to madelinorade of , to finalizate of , to morade of the madelinorade of the						
	39	overallGrade = midtermGrade * .3 + finalGrade * .35 + muzGrade * .2 + hwGrade * .15:						
	40	cout << "Overall grade : " << overallGrade << endl;						
	41	return 'U'; //Since we didn't calculate the letter grade yet it returns 'U' (Unknown)						
	42	• • • • • • • • • • • • • • • • • • • •						

overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "Overall grade : " << overallGrade << endl;</pre>

	49 - i1 50 51	it main() { GradeBook gb ("CS cout << "Course cu ""	201"); reated with cour	se name " << ç	b.getCourseName() <<	endl;		-
	Logs & others						×	×
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Files
<pre>k.cpp char computeFinalGrade() { return courseName; return courseName; cout < "Inter the midterm grade ; "; cin >> midtermGrade; cout < "Inter the final grade ; "; cin >> finalGrade; cout < "Inter the duit grade ; "; cin >> huGrade; cout < "The grades are " << midtermGrade << ", " << finalGrade << ", " << midTermGrade << endl cout << "The grades are " << midtermGrade <, " << midTermGrade << endl cout << "The grades are " << midTermGrade <, " << midTermGrade < endl cout << "The grades are " << midTermGrade <, " << midTermGrade <, " << midTermGrade << endl cout << "The grades are " << midTermGrade <, " << midTermGrade <, " << midTermGrade <, " << midTermGrade <!-- midTermGrade <</pre--></pre>
<pre>skcpp 22 string getCourseName; 23 return courseName; 24 } 25 char computeFinalGrade() { 26 double overallGrade; 27 double overallGrade; 28 cout << "Enter the midtern grade : "; 29 cout << "Enter the final grade : "; 20 cout << "Enter the quil grade : "; 21 cin >> hwGrade; 22 cout << "Enter the duil grade : "; 23 cin >> hwGrade; 24 cout << "Enter the duil grade : "; 25 cout << "Enter the duil grade : "; 26 cout << "Enter the duil grade : "; 27 cin >> hwGrade; 28 cout << "Enter the duil grade : "; 29 cout << "Enter the duil grade : "; 20 cout << "Enter the duil grade : "; 21 cin >> hwGrade; 22 cout << "Enter the duil grade : "; 23 cin >> hwGrade; 24 cout << "Enter the duil grade : "; 25 cout << "Enter the duil grade : "; 26 cout << "The grades are " << midtern@Grade << .3 + finalGrade << .2 + hwGrade << .15; 27 cout << "OverallGrade > 100 overallGrade << endl; 28 cout << "OverallGrade > 100 overallGrade << endl; 29 cout << "OverallGrade > 00 return 'B'; 20 cles if (overallGrade >= 0) 20 return 'B'; 21 cles if (overallGrade >= 0) 22 cles if (overallGrade >= 0) 23 return 'D'; 24 cles if (overallGrade >= 0) 25 cles if (overallGrade >= 60) 25 cles if (overallGrade >= 70) 25 cles if (overall</pre>
<pre>skcpp 23 char computeFinalGrade; char computeFinalGrade; cout << "Enter the midterm grade : "; cin >> midtermGrade; cout << "Enter the final grade : "; cin >> midtermGrade; cout << "Enter the duiz grade : "; cin >> midtermGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "The grades are " << midtermGrade <<< ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << end cout << ", " << hwGrade << end cout << ", " << finalGrade << *, " << quizGrade << *, " << hwGrade << end cout << "The grades are " << midtermGrade << *, " << finalGrade << *, " << quizGrade << *, " << hwGrade << end cout << "The grades are " << midtermGrade << *, 3 + finalGrade << *, 15; cout << "OverallGrade > 100 overallGrade << end; cout << "OverallGrade > 100 overallGrade << end; cout << "CoverallGrade > 100 overallGrade << end; cout << "CoverallGrade > 100 overallGrade << end; cout << "CoverallGrade > 100 overallGrade <= end; cout <= figure = f</pre>
<pre>kkcpp 24</pre>
<pre>char computeFinalGrade() { double overallGrade; cont << "Enter the midterm grade : "; cin >> midtermGrade; cont << "Enter the final grade : "; cin >> finalGrade; cont << "Enter the final grade : "; cin >> huGrade; cont << "There the homework grade : "; cin >> huGrade; cont << "There the homework grade : "; cin >> huGrade; cont << "There the homework grade : "; cin >> huGrade; cont << "There the homework grade : "; cin >> huGrade; cont << "There the homework grade : "; cin >> huGrade; cont << "There are the midtermGrade << ", " << finalGrade << ", " << fund setup det : "; cin >> huGrade; cont << "OverallGrade = midtermGrade <3 + finalGrade <2 + huGrade <15; cont << "OverallGrade > 100 overallGrade < endl; finalGrade > 100 overallGrade <= 0; retum 'U'; else if (overallGrade >= 0) retum 'U'; else if (overallGrade >= 0) retum 'U'; else if (overallGrade >= 0) retum 'D'; else if (overallGrade >= 0) retum 'A'; else if (overallGrade >= 60) retum 'F'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 60) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'B'; else</pre>
<pre>double overallGrade; double overallGrade; cout << "Enter the midterm grade : "; cin >> midtermGrade; cout << "Enter the guiz grade : "; cin >> finalGrade; cout << "Enter the duiz grade : "; cin >> finalGrade; cout << "Inter the homework grade : "; cin >> hwGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "Overall grade : " << overallGrade < .35 + quizGrade * .2 + hwGrade * .15; cout << "OverallGrade >= 90) return 'D'; else if (overallGrade >= 90) return 'A'; else if (overallGrade >= 70) return 'D'; else if (overallGrade >= 70) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B';</pre>
<pre>cout << "Enter the midterm grade : "; cin >> midtermGrade; cout << "Enter the final grade : "; cin >> finalGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl overalIGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "OveralIGrade > 100 overalIGrade << endl; if (overalIGrade > 100 overalIGrade << endl; if (overalIGrade > 100 overalIGrade < 0) return 'U'; else if (overalIGrade >= 80) return 'C'; else if (overalIGrade >= 60) return 'C'; else if (overalIGrade >= 60) return 'D'; else if (overalIGrade >= 60) return 'L'; else if (overalIGrade >= 80) return 'L'; else if (overalIGrade >= 80) return 'E'; else if (overalIGrade >= 80) return 'E';</pre>
<pre>cin >> midtermGrade; cout << "Enter the final grade : "; cin >> finalGrade; cout << "Enter the quiz grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "OverallGrade > 100 overallGrade < on return 'U'; else if (overallGrade >= 90) return 'D'; else if (overallGrade >= 80) return 'D'; else if (overallGrade >= 80) return 'A'; else return 'P'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 80) return 'A'; else if (overallGrade >= 80) return 'B'; cout <= "Double = 100 /" overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B';</pre>
<pre>cout << "Enter the final grade : "; cin >> finalGrade; cout << "Enter the quiz grade : "; cin >> huGrade; cout << "Enter the homework grade : "; cin >> huGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << huGrade << endl cout << "The grades are " << midtermGrade * .3 + finalGrade << ", " << quizGrade * .15; cout << "OverallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + huGrade * .15; cout << "OverallGrade > 100 overallGrade < endl; if (overallGrade > 100 overallGrade < endl; if (overallGrade > 100 overallGrade > 100 overall ceturn 'U'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 80) return 'B'; else if (overallGrade</pre>
<pre>in >> finalGrade; cout << "finter the quiz grade ; "; cin >> quizGrade; cout << "finter the homework grade : "; cin >> huGrade; cout << "finter the homework grade : "; cin >> huGrade; cout << "finter the homework grade : "; cin >> huGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << huGrade << endl coveralIGrade = midtermGrade < .3 + finalGrade < .35 + quizGrade * .2 + huGrade * .15; cout << "OveralIGrade > 100 overalIGrade < endl; if (overalIGrade > 100 overalIGrade < endl; if (overalIGrade > 100 overalIGrade > 100 overalIGrade > 100 overalIGrade > 100 overalIGrade >= 100 overal</pre>
<pre>cout << "Enter the quiz grade : "; cin >> quizGrade; cout << "Enter the homework grade : "; cin >> hwGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl cout << "The grades are " << midtermGrade * .35 + guizGrade << .2 + hwGrade << .15; cout << "OverallGrade > 100 overallGrade << endl; if (overallGrade > 100 overallGrade << 0) return 'D'; else if (overallGrade >= 0) return 'C; else if (overallGrade >= 0) return 'C; else if (overallGrade >= 0) return 'C; else if (overallGrade >= 0) return 'A'; else if (overallGrade >= 0) return 'A'; else if (overallGrade >= 60) return 'F'; cout <= return 'F'; cout <= return 'B'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B';</pre>
<pre>out <* "Enter the homework grade ; "; out <* "Enter the homework grade ; "; out <* "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; out << "Overall grade ; " << overallGrade < endl; if (overallGrade > 100 overallGrade << endl; if (overallGrade > 100 overallGrade < 0) return 'U'; else if (overallGrade >= 90) return 'B'; else if (overallGrade >= 80) return 'C; else if (overallGrade >= 60) return 'C; else if (overallGrade >= 60) return 'F'; } buygte: }</pre>
<pre>cin >> hwGrade; cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade.<< endl overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "OverallGrade > 100 overallGrade << endl; if (overallGrade > 100 overallGrade << endl; if (overallGrade > 100 overallGrade << i) return 'U'; else if (overallGrade >= 90) return 'A'; else if (overallGrade >= 80) return 'C'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'P'; else if (overallGrade >= 60) return 'B'; else if (overallGrade >= 80) return 'B';</pre>
<pre>36 37 38 39 40 41 42 44 44 45 66 67 77 88 99 90 90 90 90 90 91 91 91 92 92 93 94 94 95 95 95 95 95 95 95 95 95 95 95 95 95</pre>
<pre>cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade.<< endl overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15; cout << "OverallGrade > 100 overallGrade < endl; if (overallGrade > 100 overallGrade < 0) return 'D'; else if (overallGrade >= 90) return 'B'; else if (overallGrade >= 80) return 'D'; else if (overallGrade >= 70) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'F'; seturn 'B'; setur</pre>
<pre>overallGrade = midtermGrade * .3 + finalGrade * .35 + guizGrade * .2 + hwGrade * .15; cout << "OverallGrade > 100 overallGrade < endl; if (overallGrade > 100 overallGrade < 0) return 'D'; else if (overallGrade >= 90) return 'B'; else if (overallGrade >= 80) return 'C'; else if (overallGrade >= 70) return 'D'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 90) return 'A'; else if (overallGrade >= 80) return 'A'; else if (overallGrade >= 80) return 'B';</pre>
<pre> verallGrade = midtermGrade * .3 + finalGrade * .3 + funzGrade * .2 + hwGrade * .15; out << "OverallGrade = midtermGrade * .3 + funzGrade * .2 + hwGrade * .15; out << "OverallGrade = midtermGrade * .3 + funzGrade < end; if (overallGrade > 100 overallGrade < end; if (overallGrade > 100 overallGrade < 0) return 'A'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'C'; else if (overallGrade >= 60) return 'D'; else if (overallGrade >= 60) return 'F'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return</pre>
<pre>if (overallGrade > 100 overallGrade < 0) return 'U'; else if (overallGrade >= 90) return 'B'; else if (overallGrade >= 80) return 'C'; else if (overallGrade >= 70) return 'C'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 80) return 'B';</pre>
<pre> 42 44 44 44 44 44 44 44 44 44 44 44 44</pre>
<pre>43 44 44 44 45 46 46 47 48 48 48 49 49 50 50 51 52 52 55 56 Drivate; </pre> • return 'D'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >= 70) return 'A'; else if (overallGrade >= 60) return 'A'; else if (overallGrade >= 80) return 'B'; else if (overallGrade >=
<pre>44 45 46 45 46 47 48 48 49 49 50 50 51 52 55 56 17 55 56 17 55 55 55 55 55 55 55 55 55 55 55 55 55</pre>
<pre>45 45 46 47 48 48 48 49 49 50 50 51 52 55 56 17 55 56 17 55 55 55 55 55 55 55 55 55 55 55 55 55</pre>
<pre></pre>
<pre> trouting if (overallGrade >= 70) return 'C'; else if (overallGrade >= 90) return 'A'; else if (overallGrade >= 90) return 'A'; else if (overallGrade >= 80) return 'B'; s f</pre>
<pre>49 50 51 52 53 54 5 5 56 Drivate; </pre>
<pre>50 51 52 53 54 55 56 Drivate; </pre>
<pre>51 return 'D'; 52 53 54 55 55 6 Drivate; </pre>
<pre>s2 s3 s4 s5 s6 nrivate;</pre> else if (overallGrade >= 80) return 'B'; s6 nrivate;
return 'B';
55 Fecure 11 Cande an 701
56 private:
PISP IT LOVETAL USTACE 30 ///
57 string courseName;
return 'C';
Logs & others
Process terminated vith status 0 (0 minute(s), 48 second(s))
eise
oject1\GradeBook.cpp Windows (CR+LF) default Line return "F";

GradeBook.cpp [Project1] - Code::Blocks 13.12	x
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GradeBook:	
Course created with course name CS 201 Course created with course name CS 201 Enter the midterm grade : 90 Enter the final grade : 80 Enter the duiz grade : 90 Enter the honework grade : 75 The grades are 90, 80, 90, 75 Overall grade : 8 Process returned 0 (0x0) execution time : 14.641 s Press any key to continue. -	al
56 private:	
57 string courseName;	Ξ
59;	
60	
63 Gradebook gD ("C5 201"); 63 cout << "Course created with course name " << gb.getCourseName() << endl;	
64	
65 cout << "Your letter grade : " << gb.computeFinalGrade() << endl;	
67 }	
68 L	*
	F
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GradeBook.cpp (Debugging)

👆 GradeBook.cpp [Project1] - Code:	Blocks 13.12						
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Management X	GradeBook con X						
Projects Symbols Files	36						
💽 Workspace	37 cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl						
Project1	38						
🖻 🗁 Sources	39 overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15;						
GradeBook.cpp	40 cout << "Overall grade : " << overallGrade << endl;						
	41						
	42 if (overallGrade > 100 overallGrade < 0)						
	43 return '0';						
	45 else il (overallorade >= 90)						
	46 else if (overal)Grade >= 80)						
	47 return 'R':						
	48 else if $(overallGrade \geq 70)$						
	49 return 'C';						
	50 else if (overallGrade >= 60)						
	51 return 'D';						
	52 else						
	53 return 'F';						
	54 -)						
	55						
	56 private:						
	57 string courseName;						
	so						
	60						
	61 [int main() {						
	62 GradeBook gb ("CS 201");						
	63 char letterGrade;						
<i>cc</i>	64 string courseName;						
00							
	66 courseName = gb.getCourseName();						
67 🔲 🛛	67 letterGrade = gb.computeFinalGrade();						
· · · •							
	70 court < "Course Greated with Course name " < Coursename << end);						
68							
	72 return 0;						
Brooknoin	• 73 }						
Dieakpulli							
•	Lag & others						
🖌 📞 Search results X 🖍 Cccc X 💊 Build log X 🦿 Build messages X 🥂 OppCheck X X 🖍 OppCheck messages X 🕺 Ccpc X 😒 Debugger X 🚺 DoxyBlocks							
	Debugger finished with status 0						
	Compand:						
	Company (
C:\Users\Tunc\CS201\Project1\Grade	Book.cpp Windows (CR+LF) WINDOWS-1254 Line 47, Column 24 Insert Read/Write default 📟						

GradeBook.cpp (Debugging)

💾 GradeBook.cpp [Project1] - Code:	Blocks 13.12		
File Edit View Search Project	Build Debug Fortran wxSmith T	ools Tools+ Plu	ugins DoxyBlocks Settings Help
] 🗅 🕞 🗐 🚳 💊 💥 🛯	Active debuggers		
GradeBook::	Start / Continue	F8	
🛿 🏟 🕨 锋 🌚 🛛 Debug	📕 Break debugger		
🕨 🧏 63 🖓 🖉 63 💘 🔲 1	🛛 📘 🛐 🖾 Stop debugger	Shift-F8	
Management X	Grad State	F4	
Projects Symbols Files	GE Next line	F7	
Workspace	Step into	Shift-F7	e " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl
Project1 Project1	🖉 Step out	Ctrl-F7	Cunda # 2 finalCunda # 25 misCunda # 0 buCunda # 15.
GradeBook.cpp	S: Next instruction	Alt-F7	: " << overallGrade << endl;
	😼 Step into instruction	Alt-Shift-F7	
	Set next statement		overallGrade < 0)
	Toggle breakpoint	F5	>= 90)
	Remove all breakpoints		
	Add symbol file		>= 80)
	Debugging windows		>= 70)
	Information		>= 60)
	Attach to process		
	Detach		_
	Send user command to deb	ugger	
	55		
	56 private:	seName .	
	58 double midt	ermGrade, fi	nalGrade, quizGrade, hwGrade;
	59 };		
	60 61 == int main() {		
	62 GradeBook	1b ("CS 201")	;
	63 char letter	Grade;	E
	64 string cour	seName;	
	66 courseName	= gb.getCou	rseName();
	67 e letterGrade	= gb.compute	eFinalGrade();
	69 cout << "Co	urse created	with course name " << courseName << endl;
	70 cout << "Yo	ur letter gra	ade : " << letterGrade << endl;
	71 72 return 0:		
	73 }		•
	I < □		•
	Logs & others		x
	Search results X	× Suild log	X 🐓 Build messages X 🔥 CppCheck X 🐧 CppCheck messages X 🥠 Cscope X 🕥 Debugger X 🔥 DoxyBlocks 🕨
	Debugger finished with status	0	
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		Window	vs (CR+LF) WINDOWS-1254 Line 47, Column 24 Insert Read/Write default
💾 GradeBook.cpp [Project1] - Code:	:Blocks 13.12		
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Management	Graueouukcpp →		
🔄 📋 💼 🔼 🕨	36		
	37 cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl		
e-1 T r			
	40 cont < "Overall grade " < > + iningrade " .3 + quizorade " .2 + invorade " .15;		
	41		
Ston into	42 if (overallGrade > 100 overallGrade < 0)		
	43 return 'U'; 44 also if (overallGrade >= 90)		
	45 return 'A';		
	46 else if (overallGrade >= 80)		
	47 return 'B';		
	48 else if (overallGrade >= 70)		
	49 return 'C';		
	51 return 'D';		
	52 else		
	53 return 'F';		
	54 -)		
	56 private:		
	57 string courseName;		
	58 double midtermGrade, finalGrade, quizGrade, hwGrade;		
	59		
	60		
	62 GradeBook gb ("CS 201");		
	63 char letterGrade;		
	64 string courseName;		
	66 courseName = go.getCourseName(); 67 letterGrade = gb.computeFinalGrade();		
	66		
	69 cout << "Course created with course name " << courseName << endl;		
	70 cout << "Your letter grade : " << letterGrade << endl;		
	r Logs & others		
	🖌 🔍 Search results 🛛 🕺 Cccc 🗶 💊 Build log 👋 🔗 Build messages 🗶 🥂 CopCheck 🗶 🦨 CopCheck 🗶 🐧 CopCheck messages 🔍 🐧 Cscope 🗶 🔦 Dehugner 🗴 🐧 DoxyPlacks 🕨		
	At C:\Users\Tunc\CS201\Project1\GradeBook.cpp:67		
	Command:		
Execute the next line of code, but step	niside functions Windows (CR+LF) WINDOWS-1254 Line 67, Column 1 Insert Read/Write default 🗏		

👆 GradeBook.cpp [Project1] - Code::	Blocks 13.12
File Edit View Search Project	Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
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GradeBook::	computeFinalGrade() : char
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Management X	
4 Projects Symbols Files	игадевоок.срр х
Projects Symbols Files	25
Workspace	26 char computeFinalGrade() {
	27 double overallGrade;
	28 Cout << "Inter the midderm grade : ";
Стадевоок.срр	30 cont / "Intering ade, "
	31 cin > finalGrade:
	32 gout << "Inter the guiz grade : ":
	33 gin >> guizGrade;
	34 cout << "Enter the homework grade : ";
	35 cin >> hwGrade;
	36
	37 cout << "The grades are " << midtermGrade << ", " << finalGrade << ", " << quizGrade << ", " << hwGrade << endl_
	38
	39 overallGrade = midtermGrade * .3 + finalGrade * .35 + quizGrade * .2 + hwGrade * .15;
	40 cout << "Overall grade : " << overallGrade << endl;
	41
	42 if (overallGrade > 100 overallGrade < 0)
	43 return '0';
	44 else if (overallGrade >= 90)
	45 return 'A';
	47 else il (overalisrate >= ou)
	48 electric D , T
	49 return (C)
	50 else if (overallGrade >= 60)
	51 return 'D';
	52 else
	53 return 'F';
	54 - }
	55
	56 private:
	57 string courseName;
	58 double midtermGrade, finalGrade, quizGrade, hwGrade;
	59 L};
	60
	61 — int main() {
	62 GradeBook gb ("CS 201");
	Logs & others X
	🖌 🔾 Search results 🛛 🕺 Cccc 🗶 Suild log 🗶 🥐 Build messages 👋 📝 CppCheck 🗶 🧳 CppCheck messages 👋 📝 Cscope 🗶 Search results 🖉 Debugger 🗴 🚺 DoxyBlocks 🕨
	At C:\Users\Tunc\CS201\Project1\GradeBook.cpp:28
	Command:
Cilleers Tunc (CS201) Project1 (Grade	z Dele zano Windows (CP, LE) WINDOWS 1254 Line 50 Column 26 Jacob Dend Wide default

👆 GradeBook.cpp [Project1] - Code:	Blocks 13.12	of the local division in which the local division in which the local division is not the local division of the	
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- Cr 🕒 🗄 🎒 🕲 🦻 🐰 🗓			
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Management X	GradeBook.cpp ×	Dura ta anna a	Watch 'overallGrade'
	25	Kun to cursor	watch overaliorate
Workspace	26 char compu		
Project1	27 double	Watch 'overallGrade'	
GradeBook.cpp	29 cin >>	Add data breakpoint for or	
	30 cout <	Toggle breakpoint	
	31 cin >>	Find declaration of: 'overallG	
	32 Cout <	Find implementation of: 'overallGrade'	
	34 cout <	Find occurrences of: 'overallGrade'	
	35 cin >>	Find functions called by 'overallGrade'	
	36 37 cont 4	Find functions calling 'overallGrade'	<pre><</pre>
	38	Find references of: 'overallGrade'	
	39 Doveral	Incot	de * .35 + guizGrade * .2 + hwGrade * .15;
	40 cout <	Insert	<pre>/ << endl;</pre>
	42 if (pv	Swap header/source	
	43 re	Open containing folder	
	44 else i	Edit	>
	46 else i	Bookmarks	>
	47 re	Format use AStyle	
	49 re	Browse Tracker	•
	51 re	Search at OLOHO	
	52 else 53 re	Code Refactoring	,
	54 - }	DoxyBlocks	•
	56 private: 57 string cou	Aligner	•
	58 double mid	Locate in	<pre>> Frade;</pre>
	60	Nassi Shneiderman	>
	61 int main() { 62 GradeBook	Permanently Highlight 'overallGrade'	-
		Spelling suggestions for 'overall'	>
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	At C:\Users\Tunc\CS201\Projec	Properties	× •
	Command:	Remove file from project	
C:\Users\Tunc\CS201\Project1\Grade	Book.cpp	Show file in the project tree	Line 39, Column 21 Insert Read/Write default

👆 GradeBook.cpp [Project1] - Code::E	Blocks 13.12	
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×	GradeBook.cpp ×	
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	double overa	
rces	cout << "Ent Watches	
GradeBook.cpp	30 cin >> midte	
Noveling	31 cin >> final	
Next line	32 cout << "Ent LOCAIS	
	34 cout << "Ent courseName The program b std::string	
	35 cin >> hwGra courseName The program b std::string	
	37 cout << "The overallGrade 5.2834300024 double < ", " <	< quizGrade << ", " << hwGrade << endl
		Sunda & 15.
	40 cout << "Ove	grade * .15;
	41	
	42 if (overallG 43 return '	
	44 else if (ove	
	45 return 1 46 else if (over	
	47 return '	=
	48 else if (ove	
	50 else if (ove	
	51 return '	
	52 else 53 return '	
	54 - }	
	55 56 private:	
	57 string courseNam	
	58 double midtermGr	
	60	
	61 — int main() { 62 GradeBook gb ("C	
	p — Loos & others	×
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	At C:\Users\Tunc\CS201\Project1\GradeBook.cpp:39	
	Command:	- 0 2
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📙 GradeBook.cpp [Project1] - Code::l	ks 13.12	
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In the second	26	-
😡 Workspace	26 char computeFinalGrade() (
Project1	27 double overa Watches	
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GradeBook.cpp	29 cin > midte	
	31 cin >> final	
	32 cout << "Ent Locals	
	33 cin >> quize courseName 0x22fec0	
	34 cout << "Entl Course value of a second se	
	courseName <optimized out="">, _</optimized>	
	37 cout << "The overallGrade << ", " << quizGrade << ", " << hwGrade << endl	
	40 cout << "Over alignate 76 the realigned over alignate 76	
	41	
	42 if (overallG	
	43 return 1	
	45 return 1	
	46 else if (ove	_
	47 return 1	-
	48 else if (ovel	
	50 else if (over	
	51 return	
	52 else	
	53 return	
	56 private:	
	57 string courseNam	
	58 double midtermGr	
	59 ···);	
	61 [int main() (
	62 GradeBook gb ("C	-
	is & others	x
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	ogram received signal SIGSEGV, Segmentation fault.	* *
	mmand:	x
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C:\Users\Tunc\CS201\Project1\GradeBook.cp

💾 GradeBook.cpp [Project1] - Code::B	locks 13.12	Contractory of Contractory Property of Contractory	
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i 🕨 😼 🤃 🖌 🖉 📢			
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	25		×
	26 char computeFinalG	rade() {	
	28 cout << "Ent	Watches 🔹	
	29 cin >> midte:		
	30 cout << "Ent	Function argu	
Step out	31 cin >> final	Locals	
	33 cin >> quizG		
	34 cout << "Ent	courseivame UX22Tecu	
	35 cin >> hwGrau 36	courseName <optimized out="">, _</optimized>	
	37 cout << "The	overallGrade	< ", " << quizGrade << ", " << hwGrade << endl
	38 39 overallGrade	overallGrade 76 double	.2 + hwGrade * .15;
	40 > cout << "Ove		
	41		
	42 II (overalic) 43 return 'l		
	44 else if (ove:		
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	46 else if (ove		Ξ
	48 else if (over		
	49 return '		
	50 else if (ove:		
	51 return 'l		
	53 return '		
	54 - }		
	55		
	56 private: 57 string courseName		
	58 double midtermGr		
	59 -};		
	62 GradeBook gb ("C		-
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	Program received signal SIGSEGV, Segme	ntation fault.	¢
	Command:		- 6 8 X
Continue execution until the current fra	me wite	Nindows (CR+LE) WINDOWS-1254 Line 51 Column 24	Incert Read Write default

H GradeBook.cpp [Project1] - Code::Blocks 13.12	
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Workspace 37 cout << "The grades are " << midtermGrade << "."	<pre><c "="" ",="" <<="" endl;<="" finalgrade="" hwgrade="" pre="" quizgrade=""></c></pre>
Project1 38 Watches	
Sources 39 overallGrade	.2 + hwGrade * .15;
Gradebook.cpp 41	
42 if (overallGr	
43 return 'U 🗄 Locals	
44 else if (over 45 courseName The p std::st	ring
46 else if (over	
47 return 'B COURSENAME THE P STOTIST	nng
48 else if (over overallGrade No sy	
50 else if (over overallGrade Not a	
51 return 'D	
52 else	
53 return F	
55	
56 rivate:	
57 string courseName	
58 double midtermGra	
60	
61 [nt main() (
62 GradeBook gb ("CS	_
63 char letterGrade; 64 string courseName	-
65	
courseName = gb.	
7 D letterGrade = gb.	
69 cont << "Course c	
70 cout << "Your let	
72 return 0;	
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💾 GradeBook.cpp [Project1] - C	ode::Blocks 13.12	Statistics in the state of the local division of the local divisio						
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niedz webele Eiler	Gradebook.cpp ×							
orkspace	36							
Project1	38		", " << quizorade << ", " << nworade << endi;					
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GradeBook.cpp	40 cout << "Over	Eurotion argu						
	42 if (overallGr	Tuncuon argu						
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	44 else if (over	courseName The p std::string						
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	47 return 'B	coursemanie meip stuttsunig						
	48 else if (over 49 return 'C	overallGrade No sy						
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	51 return 'D							
	53 return 'F							
	54 - }							
	55							
	57 string courseName							
	58 double midtermGra							
	59 ^L ;							
	61 = nt main() {							
	62 GradeBook gb ("CS							
	63 char letterGrade; 64 string courseName		E					
	65							
	66 courseName = gb.							
	67 p letterGrade = gb.							
	69 cout << "Course o							
	70 cout << "Your let							
	72 return 0;							
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C:\Users\Tunc\CS201\Project1\G	radeBook.cpp	Windows (CR+LF) WINDOWS-1254 Line 73, Column 2	Insert Read/Write default					

- Step Into :
 - Runs the program until the next instruction is reached.
- Next Line :
 - Runs the program until the next line of code is reached.
- Step Out :
 - Runs the program until the current procedure is completed.

Step Out \geq **Next Line** \geq **Step Into**



Part 2: Porting, compiling and testing in Dijkstra

- FileZilla (FTP client) + PuTTY (SSH Client)
 - FileZilla
 - https://filezilla-project.org/download.php?type=client
 - PuTTY
 - http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html
- SSH Secure Shell

Part 2: FileZilla



Queued files Failed transfers Successful transfers

Part 2: FileZilla

🔁 sftp://koyuncu@dijkstra.ug.bcc.bilkent.edu.tr - FileZilla		
File Edit View Transfer Server Bookmarks Help		
1 📰 🔽 🔝 🖓 📰 💭 🔄 🖓 1	A M	
Host: sftp://dijkstra.ug.bc Username: koyuncu	Password: ••••••••••••••••••••••••••••••••••••	connect
Status: Connecting to dijkstra.ug.bcc.bilkent.edu.tr Status: Connected to dijkstra.ug.bcc.bilkent.edu.tr. Status: Retrieving directory listing Status: Listing directory /home/cs/koyuncu Status: Directory listing of "/home/cs/koyuncu" Status: Directory listing of "/home/cs/koyuncu" Status: Directory /home/cs/koyuncu" Status: Directory listing of "/home/cs/koyuncu" Status: Creating directory /home/cs/koyuncu/CS201 Status: Retrieving directory listing of "/home/cs/koyuncu/CS201 Status: Listing directory listing of "/home/cs/koyuncu/CS201 Status: Directory listing of "/home/cs/koyuncu/CS201 Status: Directory listing of "/home/cs/koyuncu/CS201 Status: Directory listing of "/home/cs/koyuncu/CS201	essful Jncu" i_Rec1 Jncu/CS201_Rec1" iec1 1_Rec1" successful	A
Local site: C:\Users\Tunc\CS201\Project1\	-	Remote site: /home/cs/koyuncu/CS201_Rec1 -
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Selected 1 file. Tot Delete		Empty directory.
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Queued files Failed transfers Successful transfers		

Part 2: FileZilla

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▓╶╵ <mark>╱</mark> ┋┍┍╤╵	🔁 🐰 🏁 💺 🛷 🗐	R 🚰 🕅									
Host: sftp://dijkstra.ug.bo	Username: koyuncu	Pass <u>w</u> ord: ••••	Port:	Quic	kconnect 💌						
Status: Creating dir Status: Retrieving d Status: Listing direc Status: Directory lis Status: Connecting	ectory '/home/cs/koyuncu lirectory listing of "/home/c ctory /home/cs/koyuncu/C ting of "/home/cs/koyuncı to dijikstra.ug.bcc.bilkent.e	/CS201_Rec1' :s/koyuncu/CS201_Rec1" S201_Rec1 u/CS201_Rec1" successfu du.tr	 I								*
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Real PuTTY Configuration	×
Category:	
	Basic options for your PuTTY session
Logging	Specify the destination you want to connect to
	Host Name (or IP address) Port
Bell	dijkstra.ug.bcc.bilkent.edu.tr 22
Features	Connection type:
- Window	🔘 Raw 🔘 Telnet 🔘 Rlogin 💿 SSH 🔘 Serial
Appearance Behaviour Translation Selection Colours Connection Data Proxy Telnet	Load, save or delete a stored session Saved Sessions Default Settings Load Save Delete
Rlogin ⊕- SSH Serial	Close window on exit: Always Never Only on clean exit
About	Open Cancel

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koyuncu@dijkstra:~/CS201_Rec1> ls						
GradeBook GradeBook.cpp						
koyuncu@dijkstra:~/CS201_Rec1>_/GradeBook						
Enter the midterm grade : 85						
Enter the final grade : 90						
Enter the quiz grade : 70						
Enter the homework grade : 85						
The grades are 85, 90, 70, 85						
Overall grade : 83.75						
Course created with course name CS 201						
Your letter grade : B						
koyuncu@dijkstra:~/CS201_Rec1>						
	· ·					
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- The base command for the Gnu C++ compiler is g++
- Single File Programs
 - The easiest compilation uses the command format:
 - g++ -o <outputName> <cppFile>
 - Example:
 - g++ -o myExe prog1.cpp
- <u>Multiple File Programs</u>
 - g++ -o <outputName> <cppFile1> <cppFile2> ...
 - Example:
 - g++ -o myProgram thing.cpp main.cpp
 - This command compiles and links the code files "thing.cpp" and "main.cpp" together into the executable program called "myProgram".
 - g++ -o myProgram *.cpp
 - This command compiles and links all the code files with ".cpp" extension.

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Part 2: Types of error

- Compile Time errors
 - Syntax errors
 - Undeclared variables and functions, improper function calls etc.
 - e.g. Forgetting to put semicolon(;) at the end of an instruction.

```
cout << "Hello World" << endl // No Semicolon(;)</pre>
```

- Result: error: expected ';' before 'return'
- Linker errors
 - Undefined functions or multiply defined functions or symbols
 - e.g. Not including correct header files \rightarrow **#include <iostream>**
 - Not using the correct namespace \rightarrow **using std::cin;**
 - Result: error: 'cin' was not declared in this scope

- Run-time errors
 - Fatal Errors
 - Typically cause the program to crash during execution
 - e.g. Trying to access a non-existent memory location.

- Non-Fatal(Logical) Errors
 - Does not crash the program but produce erroneous results
 - Typically hardest to detect
 - Result : Incorrect program behaviour

Why do we need header files?

- 1. Speeds up compilation time
 - Upon the change of a single line of code;
 Without headers : All of the code needs to be recompiled
 With headers : Only changing parts need to be recompiled
- 2. Keeps the code organized
 - Necessary for big projects
 - Allows multiple people to work on the same project

For more info : <u>Headers and Includes: Why and How</u>

- Back to GradeBook.cpp
- Let's try and separate this file into multiple files separating the interface of the class from its implementation as well as separating the user program that uses this code.

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	11 private:
	12 string courseName;
	13 double midtermGrade, finalGrade, quizGrade, nwGrade;
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Part 3: Using header files

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Part 3: Using header files

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login as: koyuncu
Using keyboard-interactive authentication.
Password:
Last login: Tue Oct 6 15:12:13 2015 from 139.179.50.40
Have a lot of fun
koyuncu@dijkstra:~> cd CS201_Rec1/
koyuncu@dijkstra:~/CS201_Rec1> ls
GradeBook.cpp GradeBook.h main.cpp
koyuncu@dijkstra:~/CS201_Rec1> g++ GradeBook.cpp main.cpp -o GradeBook
koyuncu@dijkstra:~/CS201_Rec1> ls
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koyuncu@dijkstra:~/CS201_Rec1> ./GradeBook
Enter the midterm grade : 77
Enter the final grade : 99
Enter the quiz grade : 88
Enter the homework grade : 100
The grades are 77, 99, 88, 100
Overall grade : 90.35
Course created with course name CS 201
Your letter grade : A
koyuncu@dijkstra:~/CS201 Rec1>

g++ GradeBook.cpp main.cpp -o GradeBook

