

12/08/2015

Introduction to if statement:

→ iterations (loops) (chapter 5)

female age ≤ 18 = f18

female age > 18 = f19

male age ≤ 18 = m18

male age > 18 = m19

gender/sex: female or male

age: ≤ 18 > 18

no of student: no of student
we want to process

Java

```
import java.util.Scanner;
```

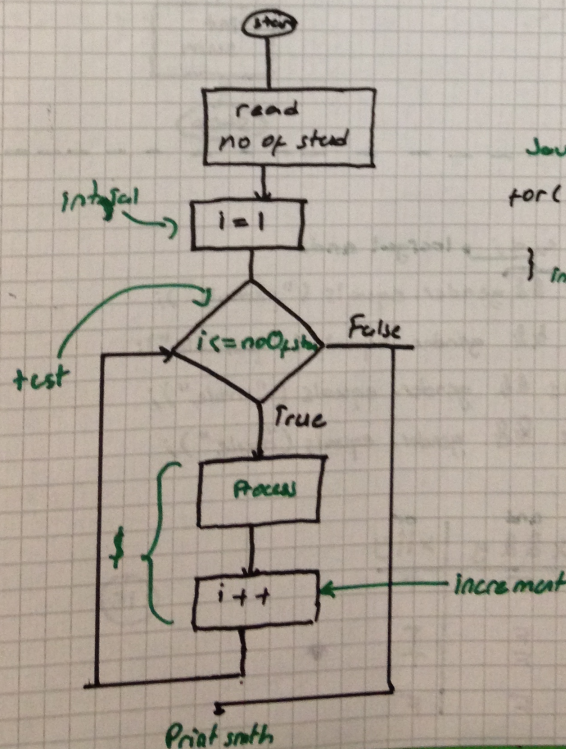
```
Scanner in = new Scanner(System.in);
```

```
int no of stu = new Integer(in.nextLine());
```

```
String gender = in.nextLine();
```

→ // to get the
gender of the stud.

Let's consider about Flow chart:



Java part;

```
for (i = 1; i <= no of stu; i++) {
```

↑ test

↑ \$

↑ increment

↑ init

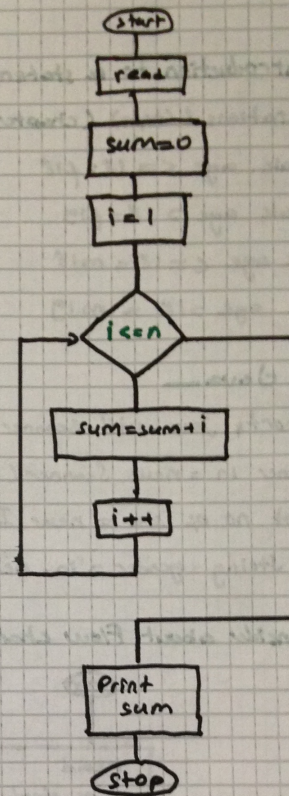
$$\text{sum} = \sum_{i=1}^n i$$

// Initialize n,

n = ...

sum = 0;

```
for (i = 1; i <= n; i++) {
    sum = sum + i;
}
```



boolean way;

boolean a, b, c, d; logical and

f18 a = age <= 18 && gender.equals("female");

f19 b = age > 18 && gender.equals("female");

m18 c = age <= 18 && gender.equals("male");

m19 d = age > 18 && gender.equals("male");

and logic

x	y	x & y	x y
T	T	T	T
T	F	F	T
F	T	F	T
F	F	F	F