

operators

+	=	Assignment op		→ OR
-	==	comparison op	&&	→ AND
/	!=	"		
*	>			
%	>=			
	<			
	<=			

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

```
int var1 = sc.nextInt();
```

```
2 ← int var2 = sc.nextInt();
```

```
5 ← System.out.println(var1 == var2);
```

↓  
op: false

```
System.out.println(! (var1 == var2))
```

↳ True

$\boxed{! \text{ True}} \rightarrow \text{false}$

$\boxed{! \text{ false}} \rightarrow \text{True}$

$\text{var1} = \text{var2};$

$\$ \leftarrow$

$\text{SOUT}(\text{var1} == \text{var2})$   
 $\hookrightarrow \text{true}$

$\text{SOUT}((\text{var1} == \text{var2}) \&\& (\text{var1} == 0))$

## # Conditional Statements

if marks  $\geq 33$  then Pass  
Else Fail

Agar marks  $\geq 33$  hai  
to Pass  
Verna Fail

---

if (condition is true) {  
    \_\_\_\_\_  
    \_\_\_\_\_  
    \_\_\_\_\_  
}

whenever the condition written is  
inside if is true then only  
code inside if block will

execute

```
if (marks >= 33) {
```

```
    SOUT ("student has passed");
```

```
} else {
```

→ above cond<sup>n</sup> is not true

```
    SOUT ("student has failed");
```

```
}
```

```
// ** Play around with code ** //

import java.util.*;
// "static void main" must be defined in a public class.
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        //int marks = sc.nextInt();
        //System.out.println("Marks of student : " + marks);

        String movieName = "Tere Naam";
        if(movieName == "OMG 2") {
            System.out.println("Akshay Kumar");
        }

        // if(movieName == "Tere Naam") {
        //     System.out.println("Salman Khan");
        // }

        // if(movieName == "pk") {
        //     System.out.println("Amir Khan");
        // }

        else {
            System.out.println("Sushant Singh Rajput");
        }
    }

    // System.out.println("Learned If/else in session
    today");
}

// 1. // 12&13 both
// 2. // 12
// 3. // 13

// How to use IF/ELSE :

// * If the condition is true, then if block will execute
// * If the condition is not true, then else block will
execute

// * If block contains all the lines inside if curly braces
// * Else block contains all the lines inside else curly
braces

// * If there is not curly braces in if/else then only the
first line after if/else will be considered as part of if/else

// * Else cannot be used without if
// * If statement can be used without else

//Indentation

// How does curly braces work in if/else

// if we have curly braces on if statement, then whatever
lines lies inside curly braces, will be considered as the
part of if block.
```

HW :

// \* In SOUT, try different ways to print strings, for ex - add spaces, special characters in between strings

// Marks of student : 34

// String str = "def";

// SOUT("abc " + str); => abc def