

## Conditional Statements

int a=5, b=10, c=15;

f —  $!(a < b)$   
t

t     $a < b$  ||  $a < c$   
t            t

## Relational Operators

- < - Greater than
- <= - greater than equal to
- > - less than
- >= - less than equal to
- == - equal to
- != - not equal to

## Logical Operators

&& - And

|| - or

! - not

A	B	A && B	A    B	!A
T	T	T	T	F
T	F	F	T	F
F	T	F	T	T
F	F	F	F	T

## Conditional Statements

class Test

```
{  
    public static void main(String arg[])
```

```
{  
        int x = -5;
```

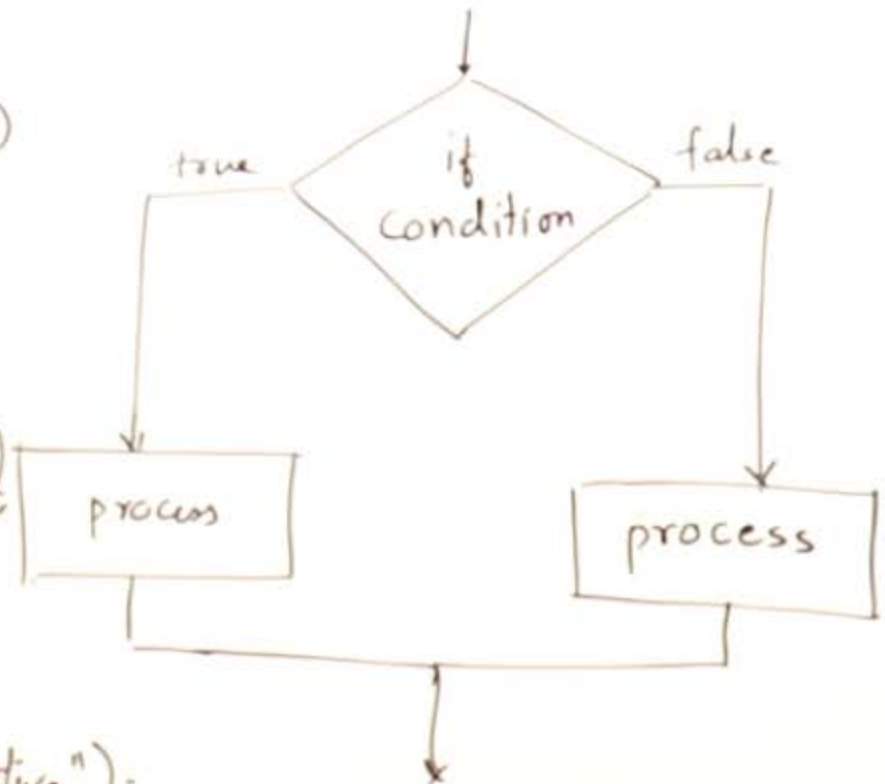
```
        if (x >= 0)  
        {
```

```
            System.out.println("Positive");
```

```
        }  
        else  
        {
```

```
            System.out.println("Negative");
```

```
        }  
    }  
}
```



m. Conditional statement ka use optin type condition ka liya hota hai.

m. If-else statement mai if ka sath bracket mai condition likhna compulsory hota hai but else mai likho na likho shardha hai.

# Conditional Statements

Nested if

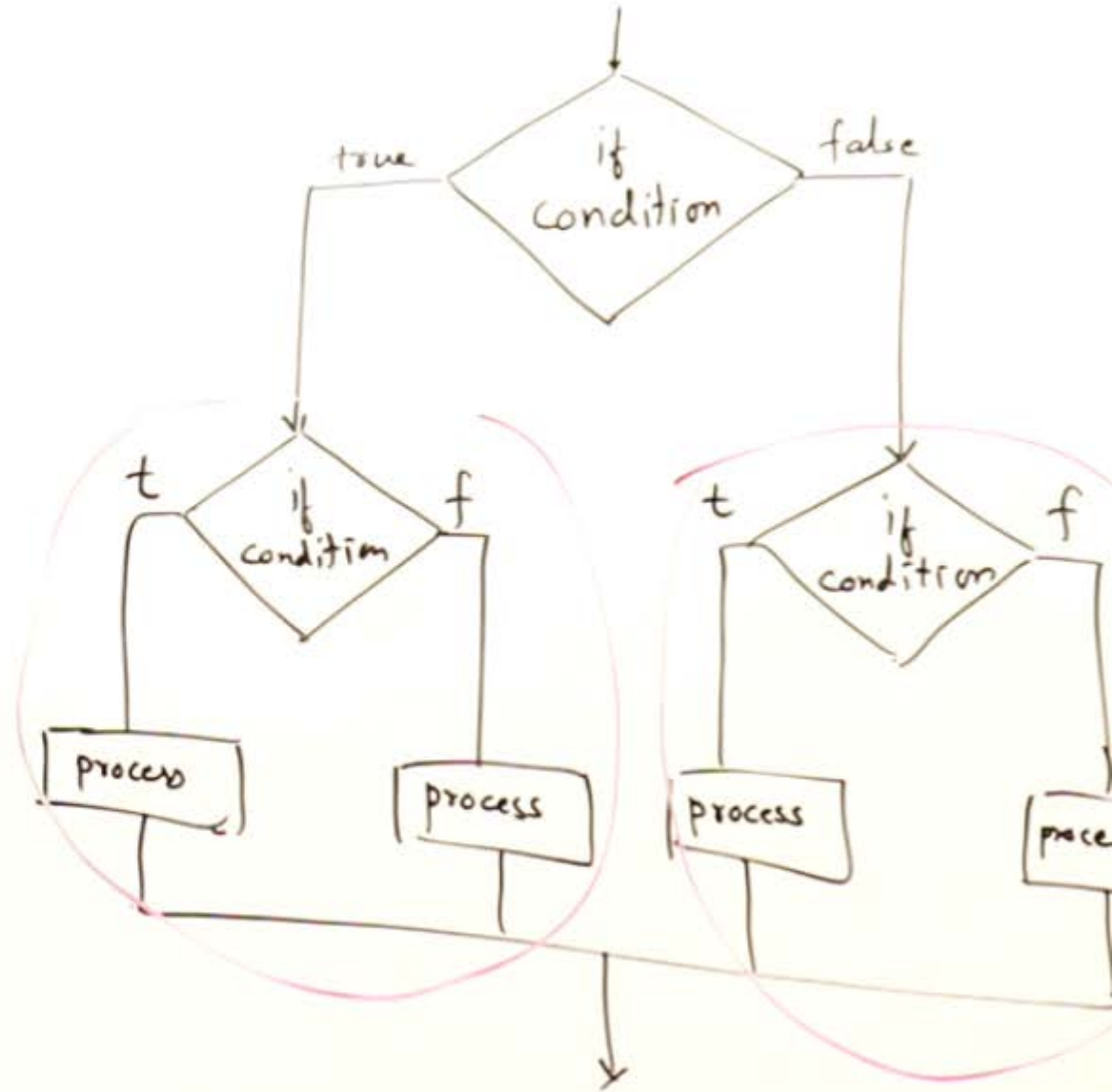
```
if (condition)
{
```

```
    if (condition)
    {
        =
    }
    else
    {
        =
    }
}
```

```
else
{
```

```
    if (condition)
    {
        =
    }
    else
    {
        =
    }
}
```

```
}
```



## Conditional Statements

class Test

```
{  
    public static void main(String args[])  
    {
```

```
        int a=5, b=6, c=10;
```

```
        if(a > b && a > c)  
        {
```

```
            System.out.println(a);
```

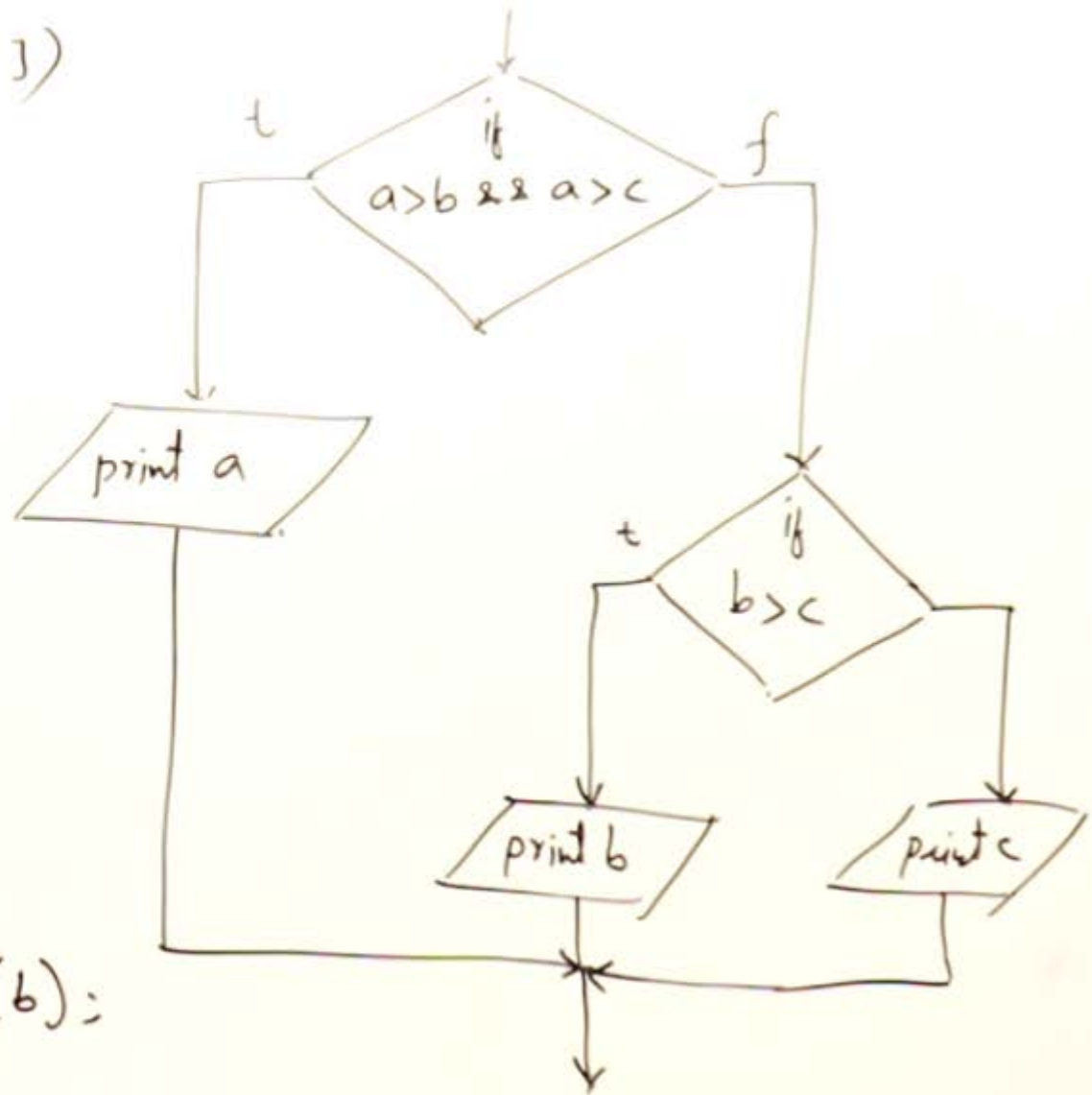
```
        }  
        else  
        {
```

```
            if(b > c)
```

```
                System.out.println(b);
```

```
            }  
            else  
            {
```

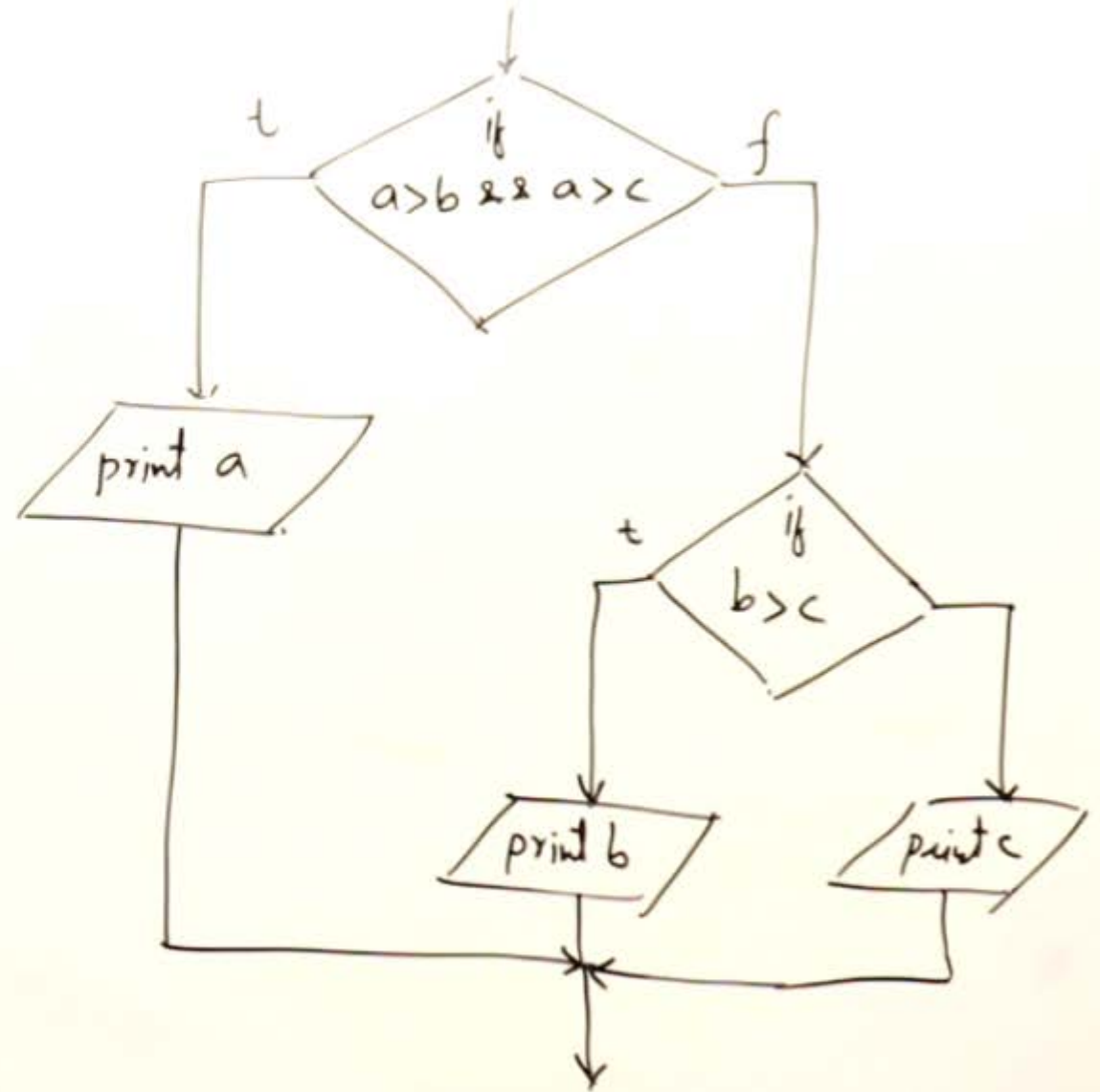
```
                System.out.println(c);  
            }  
        }  
    }  
}
```



# Conditional Statements

## else if Ladder

```
if (condition)
{
}
=
{
else if (condition)
{
}
=
{
else if (condition)
{
}
=
{
else
{
}
=
}
```





## Switch Case Control Instruction

Switch - Case is used when we have to make a choice between number of alternatives for a given variable

```
Switch (Var) {
```

```
    Case C1:
```

```
        // Code;
```

```
        break;
```

```
    Case C2:
```

```
        // Code
```

```
        break;
```

```
    Case C3:
```

```
        // Code
```

```
        break
```

```
    default:
```

```
        // Code
```

```
}
```

Only all these data types used in switch contion.

x

```
byte }  
short } Case 1:  
int }  
char } Case 'a':  
String } Case "File":
```

Ham jo kaam else-if sai kar sakta hai wo ise sai bhi kar sakta hai. But iska use sai time reduce jo jata hai processing ka.

## Switch.. case

```
int day=1;
```

```
switch(day)
```

X case 1.1  
X

```
case 1: s.o.p("MON");  
break;
```

byte }  
short } case 1:  
int }

```
case 2: s.o.p("TUE");  
break;
```

char } case 'a':

```
case 3: s.o.p("WED");  
break;
```

String } case "File":

```
default: s.o.p("Invalid Day");  
break;
```

```
}
```

```
int day=
```

```
if(day==1)
```

```
s.o.p("MON");
```

```
else if(day==2)
```

```
s.o.p("TUE");
```

```
else if(day==3)
```

```
s.o.p("WED");
```

```
⋮
```