

# DIFFERENCES BETWEEN ELSE-IF LADDER AND SWITCH

Assignment: 7

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### ELSE-IF LADDER:

- 1) Else-if ladder statement controls the statements to be executed on the basis of some conditions. Whenever statement is used, the compiler initially checks the condition whether it is true or false and if the condition is found to be true then the corresponding statements are executed. If the condition is false, it continues checking the next else if statement until the condition comes to be true or the control comes to the end of the else if ladder.
- 2) Multiple statements of else-if ladder statement must be within braces.
- 3) Else-if ladder statement have a complex format.
- 4) In if-else-if ladder statement the keyword if and else are used.
- 5) In if-else-if ladder statement there is no necessity of break statement.
- 6) In this first condition is tested then it comes to else if the condition is not true and then the other conditions are tested.

### SWITCH STATEMENT:

- 1) The switch statement is similar to else-if ladder statement as it provides multiple conditions. It tests the value of variable or expression against a series of different cases or values. If a match is found then the block of code is executed otherwise the default case is executed.
- 2) There is no need to put the multiple statements of a case into braces.
- 3) Switch statement have clearer format than else-if ladder statement.
- 4) In switch statement the keyword switch, case and default are used
- 5) In switch statement each case of switch the last statement must be the break statement.
- 6) In this first condition is checked and then it switches to that case.

NESTED SIMPLE IF  
AND  
NESTED IF-ELSE

## Nested Simple If:

```
class Demo
{
public static void main(String args[])
{
int a=10;
int b=20;

if(a==10){
if(b==20){
System.out.println("Kodnest");
}
}
}
}
```

## Nested If-Else:

```
public class Demo{
public static void main(String[] args) {
int n=24;
if (n % 2 == 0){
System.out.print("Even ");
if (n % 6 == 0) {
System.out.println("and divisible by 6");
} else {
System.out.println("and not divisible by 6");
}}
}
```

```
else {  
    System.out.println("Odd ");  
    if(n % 3 == 0) {  
        System.out.println("and divisible by 3");  
    } else {  
        System.out.println("and not divisible by 3");  
    }  
}  
}  
}  
}
```