

# CORE JAVA

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# Flow Control

- Flow control describe the order in which the statement will be executed at run time
- 1)Selection Statement
  - I. If-else
  - II. switch
- 2)Iterative Statement
  - I. While loop
  - II. Do-while loop
  - III. For loop
- 3)Transfer Statement
  - I. Break
  - II. Continue
  - III. Return
  - IV. Try catch

# 1) If -Else

```
If (b)
{
    Action of a is ture;
}
Else
{
    Action of b is false
}
```

The Java if-else statement also tests the condition. It executes the *if block* if condition is true otherwise *else block* is executed.

```
int time = 20;
if (time < 18)
{ System.out.println("Good day.");
}
Else
{
System.out.println("Good evening.");
} // Outputs "Good evening."
```

E.g1

```
int x=10;  
If(x)  
{  
System.out.println("Hello");  
}  
Else{  
System.out.println("Hii");  
}
```

CE -:incompatible type fount int x=10  
required Boolean

E.G 2

```
int x=10;  
If(x==20)  
{  
System.out.println("Hello");  
}  
Else{  
System.out.println("Hii");  
}
```

O/P-Hi

E.g3

```
int x=10;  
If(x==20)  
{  
System.out.println("Hello");  
}  
Else{  
System.out.println("Hii");  
}
```

CE -:incompatible type fount int x=10  
required Boolean

### E.G 4

```
boolean b=true;  
If(b=false)  
{  
System.out.println("Hello");  
}  
Else{  
System.out.println("Hii");  
}
```

O/p:- Hiii

### E.G 5

```
boolean b=true;  
If(b==false)  
{  
System.out.println("Hello");  
}  
Else{  
System.out.println("Hii");  
}
```

O/P:- Hello

## How to use if

- Eg 1
- If(true)
- SOP("Hello");
- Eg 2
- If(true);
- Eg 3
- If(true)
- int x=10;
- Eg 4
- If(true)
- {
- int x=10;
- }
- CE-:Error

1. Both else part and curly braces {} are optional
2. Without "{}" we can write only one statement under if
3. Which should not be declaration statement

- Eg 4

```
If(true)  
If(true)  
SOP("Hello");  
else  
SOP("Hiii");  
• O/P Hello
```

### Eg5

;;;; is valid statement  
;(Semicolon ) is valid java  
statement,which is also known as  
empty Statement

//It is a program of odd and even number.

```
public class IfElseExample {  
    public static void main(String[] args) {  
  
        int number=13;      //defining a variable  
        if(number%2==0) //Check if the number is divisible by 2 or not  
        {  
            System.out.println("even number");  
        }  
        else{  
            System.out.println("odd number");  
        }  
    }  
}
```

## WAP – Find no is positive negative or zero

```
public class PositiveNegative {  
    public static void main(String[] args) {  
        int number=-13;  
        if(number>0){  
            System.out.println("POSITIVE");  
        }else if(number<0){  
            System.out.println("NEGATIVE");  
        }else{  
            System.out.println("ZERO");  
        }  
    }  
}
```



1)Using If statement write a program in java to determine the largest of two number(using scanner class)

```
import java.util.Scanner;  
public class FindLarger {  
    public static void main(String[] args) {  
        int largest;  
        Scanner s= new Scanner(System.in);  
        System.out.println("Enter the first number");  
        int num1=s.nextInt();  
        System.out.println("Enter the Second number");  
        int num2=s.nextInt();
```

```
largest=GetLargest(num1,num2);

    System.out.println(" Largest of= " +num1 + " and " +num2+" is
"+largest);

    s.close();

}

    static int GetLargest(int a,int b)

{   if(a>b)

    return a;

    return b;

}

}
```