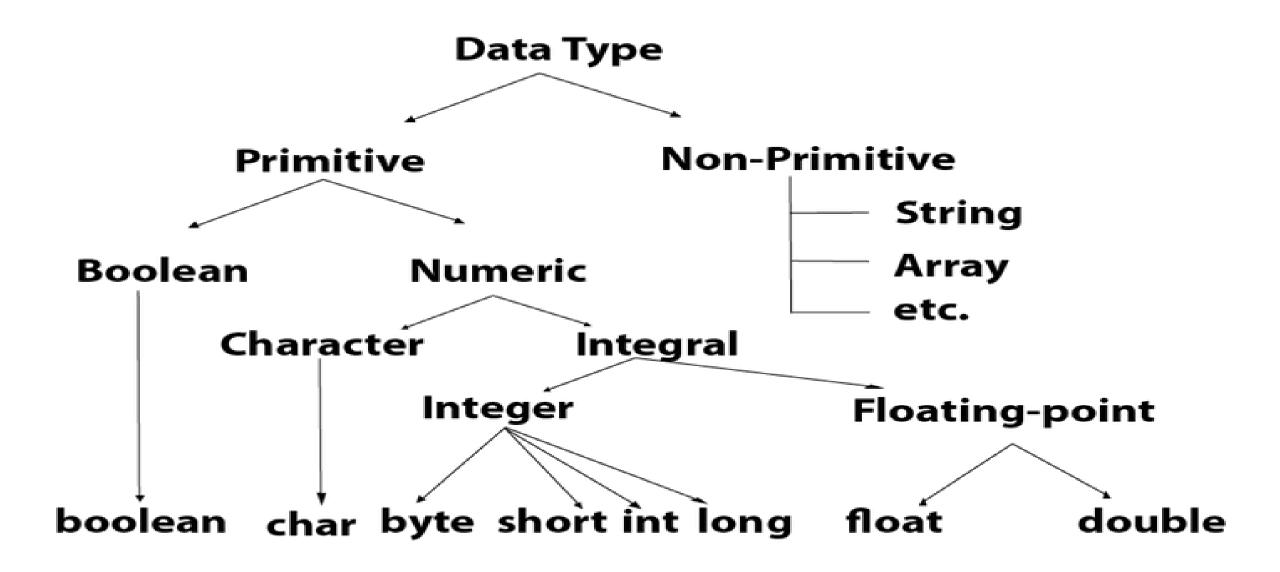


Logic Building Session Day 4: MAR 2023

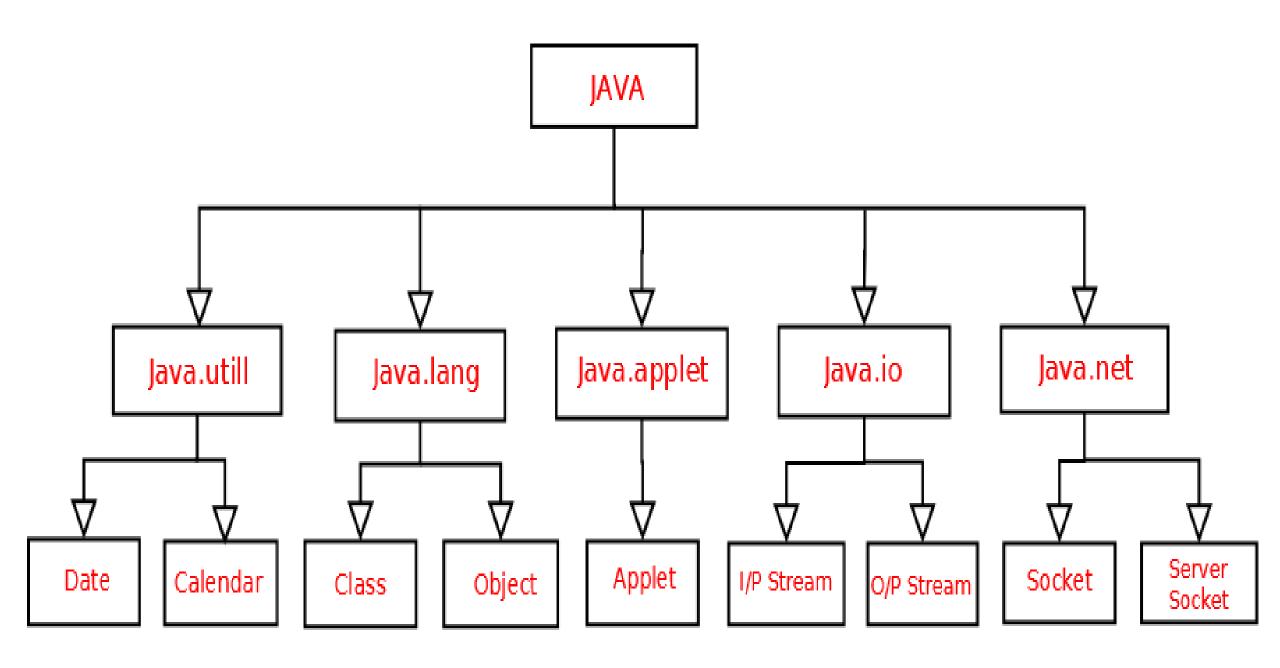
Session 1

Kiran Waghmare





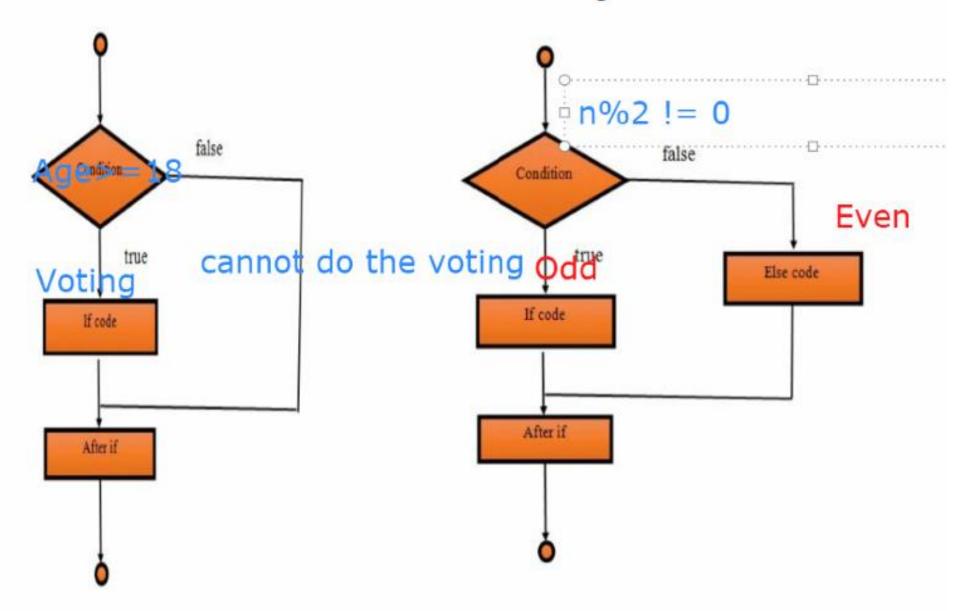
Type Nam	e Minimum Value	Maximum Value	Default	Size	Literal
byte	-128	127	0	8-bit +/-	· :
short	-32768	32767	0	16-bit +/-	
int	-2147483648	2147483647	0	32-bit +/-	3, 077, 0xBAAC
long	-9223372036854775808	9223372036854775807	0	64-bit +/-	3L
float	-1.40239846e-45	3.40282347e+38	0.0	32-bit IEEE float	3.0F, 3.0E2F
double	-4.94065645841246533e-324	1.79769313486231570e+308	0.0	64-bit IEEE float	3.0, 3.0E2, 3.0e2D
boolean	false	true	false	N/A	true, false
char	\u0000	\uffff	\u0000	16-bit Unicode	'3'



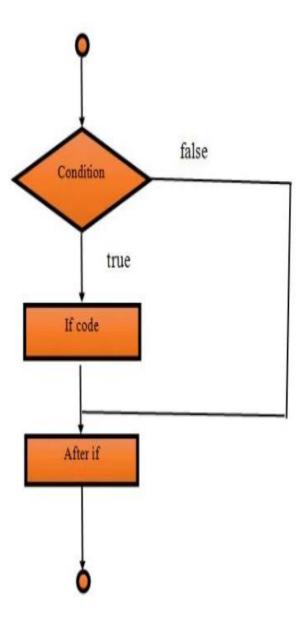
Topic: -Flow control Flow control i=i+1; Iterative Selective Transfer statement statement statement 1.while() 1.break 1.If-else 2.do-while() 2.Switch 2.continue 3.for() 3.return 4.forEach() 4.try-catch-finally 5.assert()

Data-flow-diagram of If Block

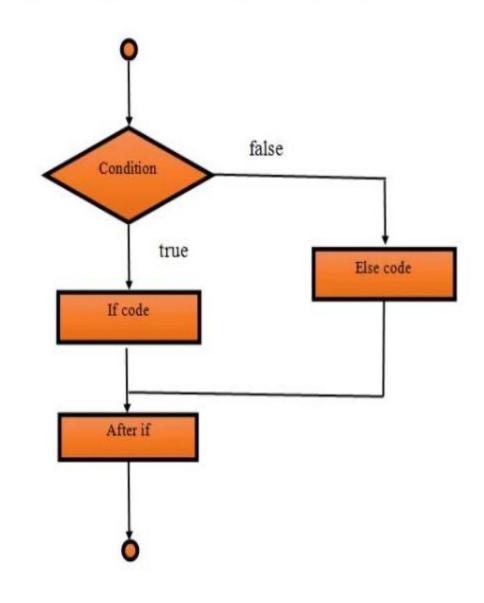
Data-flow-diagram of If Else Block



Data-flow-diagram of If Block



Data-flow-diagram of If Else Block



```
Stamp Spotlight Eraser Format Undo
≡class IfElse1{
                                                      Who can see what you share here? Recording On
      public static void main(String args[])
                                                             C:\WINDOWS\system32\cmd.exe
                                                            D:\Test>javac IfElse1.java
         _int marks = 58; 🍆
                                                            D:\Test>java IfElse1
          if(marks >= 75)
                                                            First division
System.out.println("First division");
                                                            D:\Test>javac IfElse1.java
          System.out.println("Check karo !!");
                                                            D:\Test>java IfElse1
                                                            D:\Test>javac IfElse1.java
                                                            D:\Test>java IfElse1
                                                            Check karo !! 🦯
                                                            D:\Test>
```

```
■class IfElse1{
```

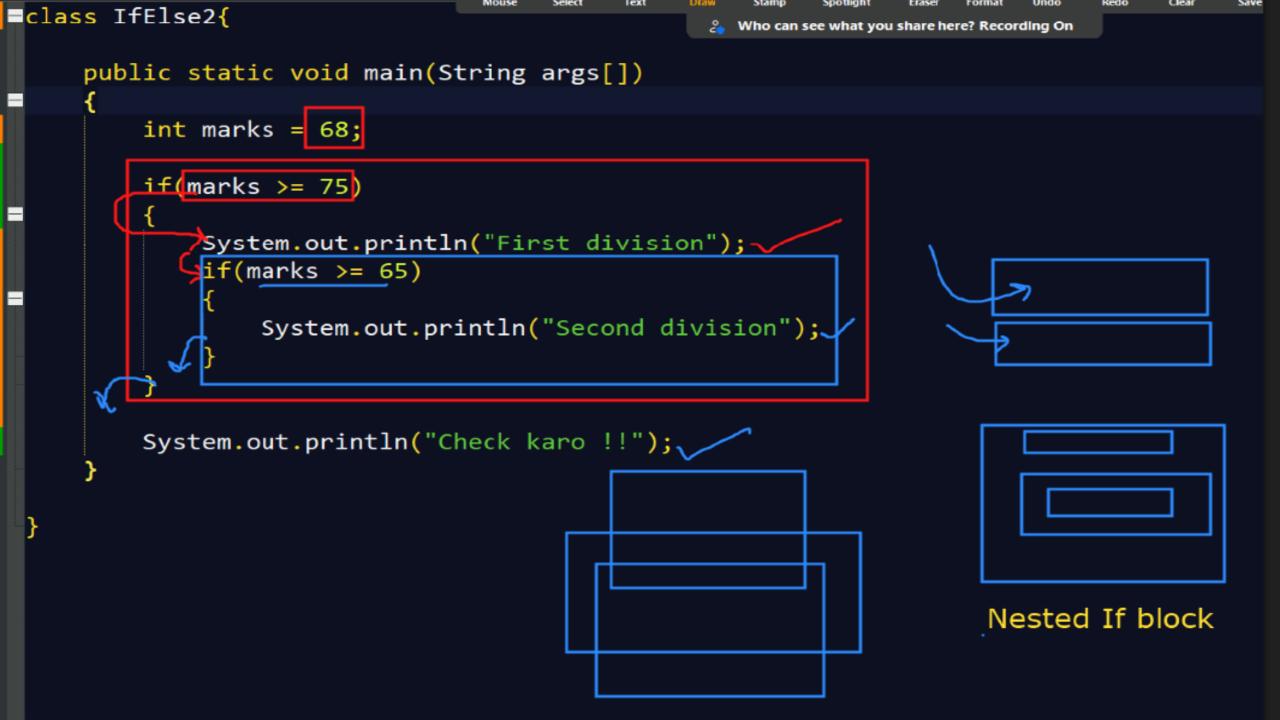
```
public static void main(String args[])
{
   int marks = 98;

   if(marks >= 75)

   {
      System.out.println("First division");
   }
   System.out.println("Check karo !!");
}
```

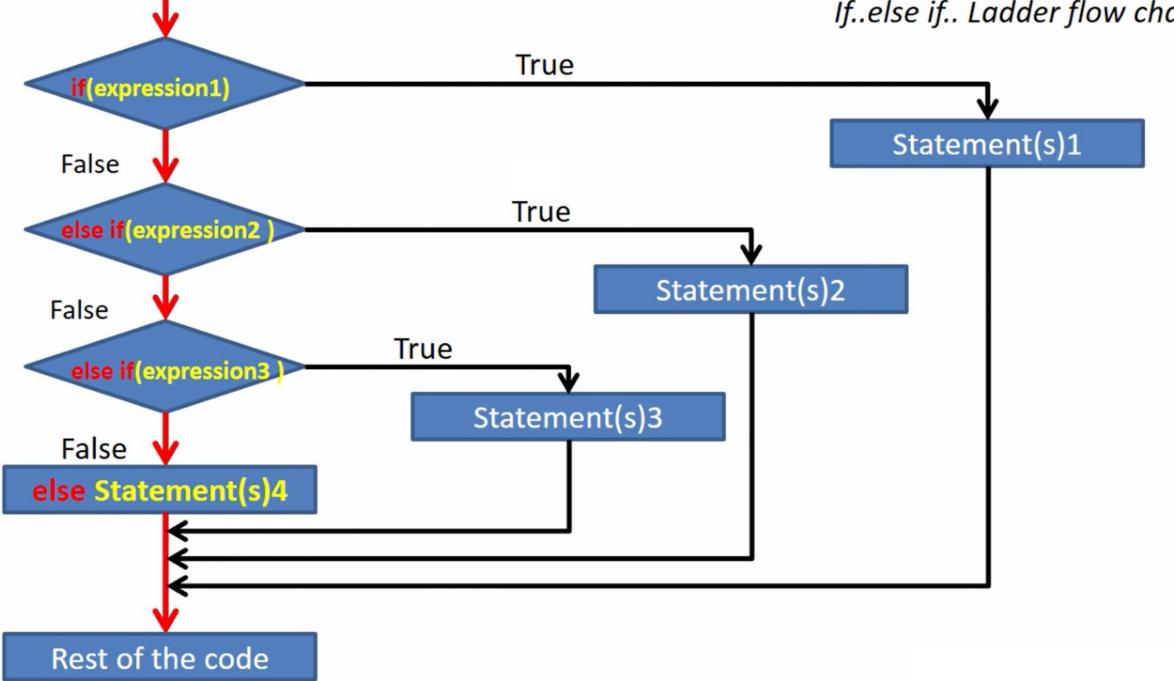
```
C:\WINDOWS\system32\cmd.exe
D:\Test>java IfElse1
D:\Test>javac IfElse1.java
D:\Test>java IfElse1
Check karo !!
D:\Test>javac IfElse1.java
D:\Test>java IfElse1
First division
Check karo !!
D:\Test>
```

```
int marks = 98;
if(marks >= 75)
    System.out.println("First division");
if(marks >= 65)
    System.out.println("Second division");
System.out.println("Check karo !!");
```

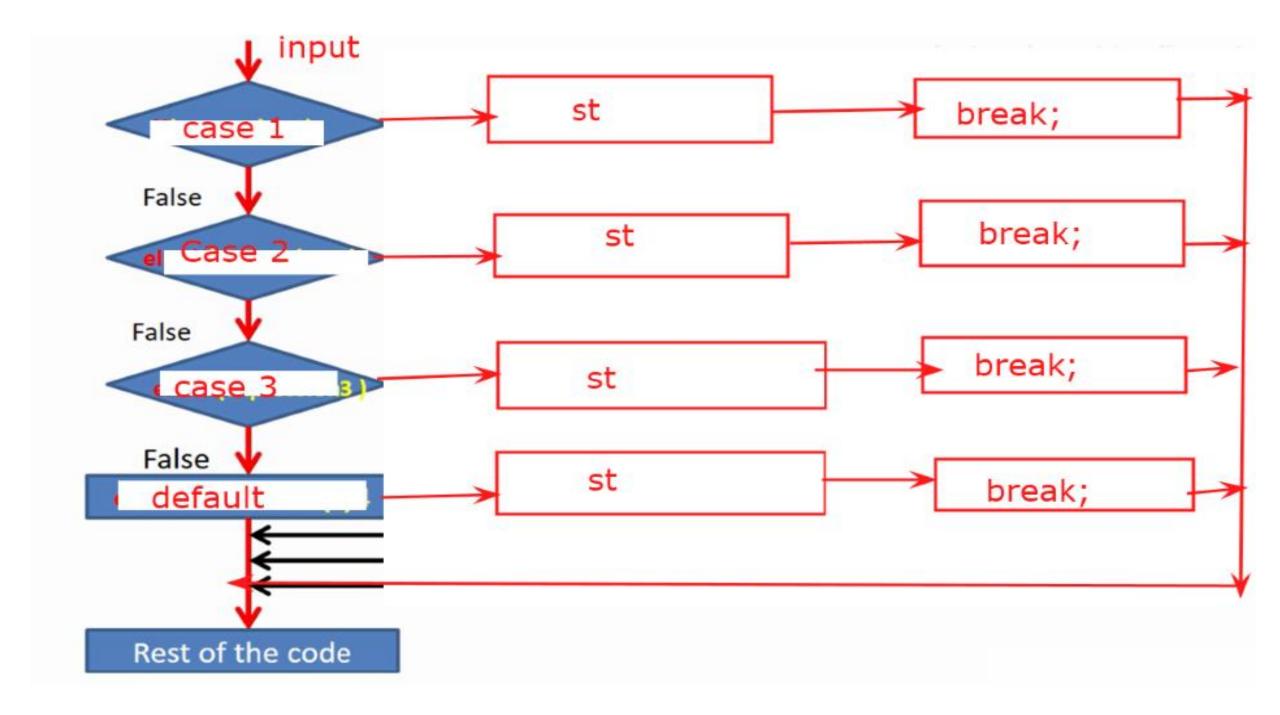


```
≡class IfElse2{
                                                 hand
                                                           Who can see what you share here? Recording On
      public static void main(String args[])
           int marks = 8;
           i<sup>+</sup>(marks >■ 75)
               System.out.println("First division");
           else
               System.out.println("Check karo !!");
```

Clea



```
■class IfElse4{
     public static void main(String args[])
         int marks=75;
         if(marks < 50)
```



```
class Switch{
                                                        Who can see what you share here? Recording On.
                                                        [6N] C:\WINDOW5\system32\cmd.exe
   public static void main(String args[])
                                                       D:\Test>java IfElse4
       int day =3
                                                        B Grade
       String str;
                                                       D:\Test>javac IfElse4.java
       switch(day)
                                                       D:\Test>java IfElse4
                                                        Fail !
            case 1: str = "Monday";
                                                       D:\Test>javac Switch.java
            case 2: str = "Tuesday";
           case 3: str = "Wednesday";
                                                       D:\Test>java Switch
                                                        Invalid day !
            case 4: str = "Thursday"
                                                       D:\Test>
            case 5: str = "Friday"; !
            case 6: str = "Saturday"
            case 7: str = "Sunday";
            default: str = "Invalid day";
       System.out.println(str);
```

Text

```
Mouse
            Select
```

Text

```
≡class Switch{
```

```
public static void main(String args[])
    int day =3;
    String str;
    switch(day)
        case 1: str = "Monday";break;
        case 2: str = "Tuesday";break;
        case 3: str = "Wednesday";break;-
        case 4: str = "Thursday";break;
        case 5: str = "Friday";break;
        case 6: str = "Saturday";break;
        case 7: str = "Sunday";break;
        default: str = "Invalid day !";break;
   System.out.println(str);
```

```
Select
                                                    Text
                                                                     Spotlight
                                        Mouse
                                                                            Eraser
                                                             Who can see what you share here? Recording On
∃class Switch{
                                                           C\WINDOWS\system32\cmd.exe
     public static void main(String args[])
                                                          D:\Test>java IfElse4
        int day =3;
                                                          Fail!
         String str;
                                                          D:\Test>javac Switch.java
         switch(day)
                                                          D:\Test>java Switch
                                                          Invalid day ! -
             case 1: str = "Monday";break;
                                                          D:\Test>javac Switch.java
             case 2: str = "Tuesday";break;
            case 3: str = "Wednesday"; reak;
                                                          D:\Test>java Switch
                                                          Wednesday
             case 4: str = "Thursday";break;
                                                          D: VTest>
             case 5: str = "Friday";break;
             case 6: str = "Saturday";break;
             case 7: str = "Sunday";break;
             default: str = "Invalid day !"; break;
         System.out.println(str);
```

Clear

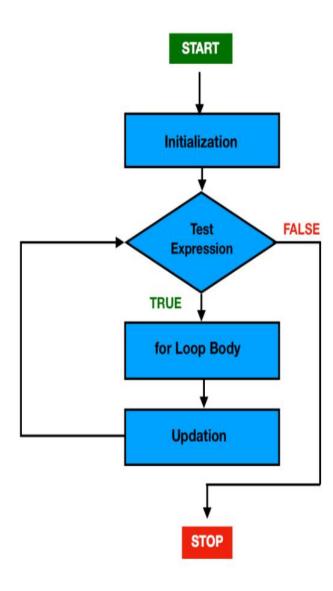
```
char ch = sc.next().charA
                                                                                    Ш
//char ch = 'a';---> Compile cime
                                              Who can see what you share here? Recording On
switch(ch) /\
                                               D:\Test>javac Switch1.java
    case '
    case 'e':
                                               D:\Test>java Switch1
                                               shksfkskfjls
    case 'i':
                                                galat input diya hai!
    case 'o':
                                               D:\Test>javac Switch1.java
    case 'u':
                                               D:\Test>java Switch1
    System.out.println(ch + " is a LOWER vowe;A
                                               A is a UPPER vowel.
    case A
                                                galat input diya hai!
    case 'E':
                                               D:\Test>
    case 'I':
    case '0':
    case 'U':
    System.out.println(ch + " is a UPPER vowel.");
    default: System.out.println(" galat input diya hai!");
```

```
//char ch = 'a';---> Comp
switch(ch)
                                              Who can see what you share here? Recording On
    case 'a':
                                              D:\Test>javac Switch1.java
    case 'e':
                                               D:\Test>java Switch1
    case 'i':
                                              A is a UPPER vowel.
    case 'o':
                                               galat input diya hai!
    case 'u':
                                              D:\Test>java Switch1
    System.out.println(ch + " is a LOWER vowe;"
                                               u is a LOWER vowel.
    case 'A':
                                               u is a UPPER vowel.
                                                galat input diya hai!
    case 'E':
                                              D:\Test>
    case 'I':
    case '0':
    case 'U':
    System.out.println(ch + " is a UPPER vowel.");
    default: System.out.println(" galat input diya hai!");
```

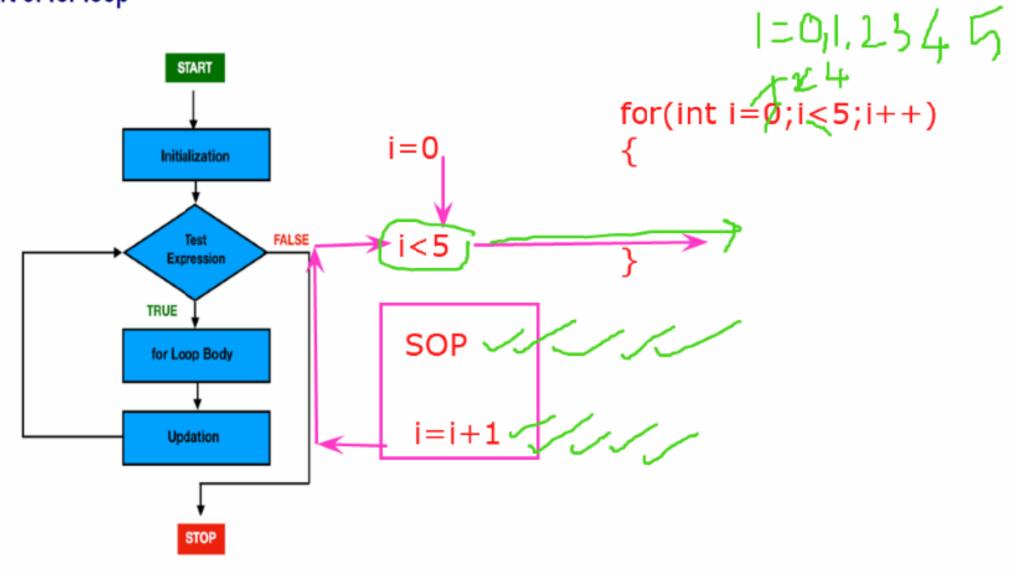
```
class Switch2{
                                                        Who can see what you share here? Recording On
                                                                 D:\Test>javac Switch1.java
    public static void main(String args[])
        String day = "Monday";// compiletime
                                                                 D:\Test>java Switch1
        switch(day)
                                                                 e is a LOWER vowel.
            case "Monday": System.out.println("Working day");
                                                                 D:\Test>javac Switch2.java
            case "Tuesday": System.out.println("CDAC Working day
                                                                 D:\Test>java Switch2
            case "Wednesday":System.out.println("Formal Working Working day
                                                                 CDAC Working day
                                                                 Formal Working day -
            System.out.println("String use in case option....'String use in case option...
                                                                 D:\Test>
                     System.out.println(" Chutti hai !");
```

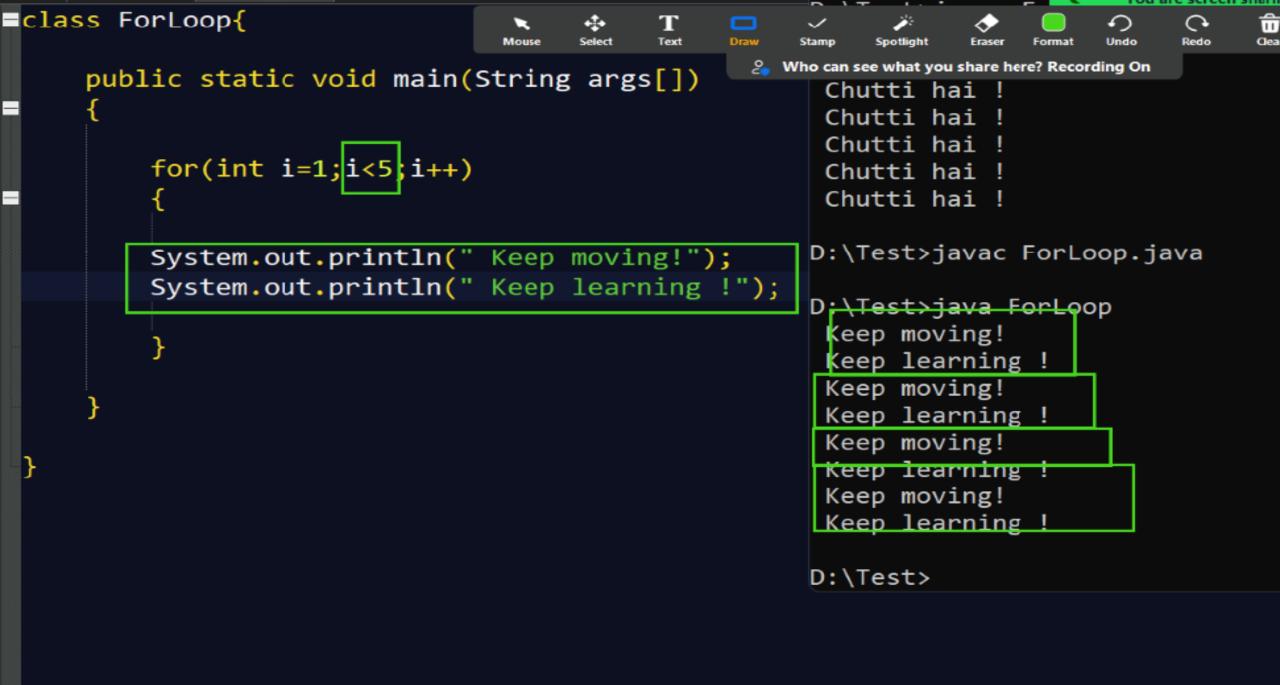
面

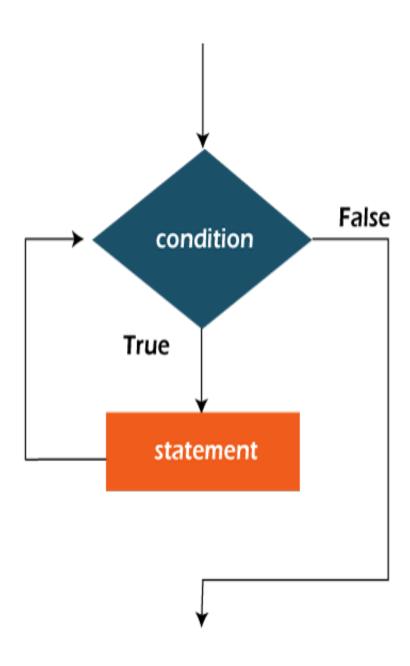
Flowchart of for loop

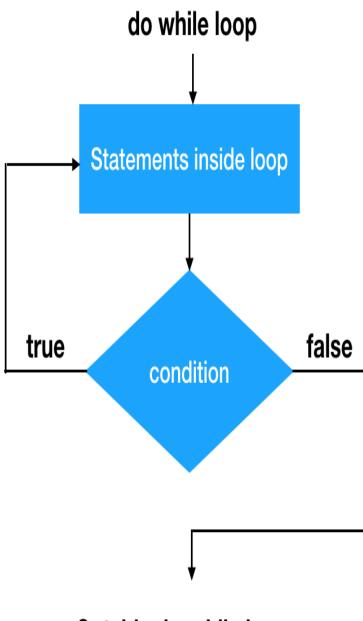


Flowchart of for loop









Outside do-while loop