

SWITCH EXECUTED IN 3 WAYS

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);

        System.out.println("Enter percentage :");
        int percentage = s.nextInt();
        System.out.println(" percentage : " + percentage);

        System.out.println("SWITCH WITHOUT BREAK");
        switch (percentage)
        {
            case 95: System.out.println(" Excellent ");

            case 85: System.out.println(" V Good ");

            case 75: System.out.println(" Good ");

            default: System.out.println(" Sorry Try Again
");
        }

        System.out.println("SWITCH WITH BREAK");
        switch (percentage)
        {
            case 95: System.out.println(" Excellent
"); break;

            case 85: System.out.println(" V Good "); break;

            case 75: System.out.println(" Good "); break;
        }
    }
}
```

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```
        default: System.out.println(" Sorry Try Again
");break;
    }

    System.out.println("SWITCH |: REPLACED WITH -> |
WITHOUT BREAK");
    switch(percentage)
    {
        case 95-> System.out.println(" Excellent ");

        case 85-> System.out.println(" V Good ");

        case 75->System.out.println(" Good ");

        default-> System.out.println(" Sorry Try Again
");
    }

    System.out.println(" Thank You ");

}

}
```

```
Enter percentage :
85
percentage :85
SWITCH WITHOUT BREAK
V Good
Good
Sorry Try Again
SWITCH WITH BREAK
V Good
SWITCH |: REPLACED WITH -> | WITHOUT BREAK
V Good
Thank You
```

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- LOOPING

Repeatedly same statement/statements get executed till condition results **TRUE**

- For loop

```
for(exp1 ; exp2 ; exp3)
{
    statements
}
```

```
for(initialisation ; condition ; increment/decrement)
{
    statements
}
```

```
int i;
for (i=0;i<10;i++)
{
    System.out.println(i);
}
```

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Example 1:
for loop
reverse and forward loop

```
package ABC;

import java.util.Scanner;

public class A1 {

    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);

        System.out.println("Enter n value <=20 :");
        int n = s.nextInt();
        System.out.println(" percentage  :" + n);

        int i;

        System.out.println("***** FORWARD FOR LOOP
*****");

        for (i=0;i<=n;i++)
        {
            System.out.print(i);
            System.out.println(" | HI");
        }

        System.out.println("***** REVERSE FOR LOOP
*****");

        for (i=20;i>=n;i--)
```

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```
{
    System.out.print(i);
    System.out.println(" | welcome ");
}
System.out.println("Thank you");

}

}
```

output

Enter n value <=20 :

5

percentage :5

***** FORWARD FOR LOOP *****

0 | HI

1 | HI

2 | HI

3 | HI

4 | HI

5 | HI

***** REVERSE FOR LOOP *****

20 | welcome

19 | welcome

18 | welcome

17 | welcome

16 | welcome

15 | welcome

14 | welcome

13 | welcome

12 | welcome

11 | welcome

10 | welcome

9 | welcome

8 | welcome

7 | welcome

6 | welcome

5 | welcome

Thank you

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- While

```
initialisation ;  
while(condition)  
{  
Statements  
increment/decrement;  
}
```

Example 1:
While loop
Reverse and forward loop

```
package ABC;  
  
import java.util.Scanner;  
  
public class A1 {  
  
    public static void main(String[] args) {  
        Scanner s= new Scanner(System.in);  
  
        System.out.println("Enter n value <=20 :");  
        int n = s.nextInt();  
        System.out.println(" percentage  : " + n);  
  
        int i;  
  
        System.out.println("***** FORWARD while LOOP  
*****");  
        i=0;
```

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```
        while (i<=n)
        {
            System.out.print(i);
            System.out.println(" | HI");
            i++;
        }

        System.out.println("***** REVERSE while LOOP
*****");
        i=20;
        while (i>=n)
        {
            System.out.print(i);
            System.out.println(" | welcome ");
            i--;
        }
        System.out.println("Thank you");

    }

}
```

Enter n value <=20 :

5

percentage :5

***** FORWARD while LOOP *****

0 | HI

1 | HI

2 | HI

3 | HI

4 | HI

5 | HI

***** REVERSE while LOOP *****

20 | welcome

19 | welcome

18 | welcome

17 | welcome

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```
16 | welcome
15 | welcome
14 | welcome
13 | welcome
12 | welcome
11 | welcome
10 | welcome
9 | welcome
8 | welcome
7 | welcome
6 | welcome
5 | welcome
Thank you
```

Example 2:

While

using expression (no initialisation)

```
package ABC;
```

```
import java.util.Scanner;
```

```
public class A1 {
```

```
    public static void main(String[] args) {
        Scanner s= new Scanner(System.in);
```

```
        System.out.println("Enter marks1 and marks2 :");
        int marks1 = s.nextInt();
        int marks2 = s.nextInt();
        System.out.println(" marks1 : " + marks1);
        System.out.println(" marks2 : " + marks2);
```

```
        while ((marks1 < 100) && (marks2 < 100))
        {
```


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```
        System.out.println("welcome |Total is  
"+(marks1+marks2));  
  
        marks1+=10;marks2+=15;  
    }  
  
    System.out.println("Thank you");  
  
}
```

Enter marks1 and marks2 :

55 45

marks1 :55

marks2 :45

welcome |Total is 100

welcome |Total is 125

welcome |Total is 150

welcome |Total is 175

Thank you

Enter marks1 and marks2 :

99 99

marks1 :99

marks2 :99

welcome |Total is 198

Thank you

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o Do while

```
initialisation ;  
do  
{  
statements  
increment/decrement;  
}  
while(condition);
```

Example 1:

```
package ABC;  
  
import java.util.Scanner;  
  
public class A1 {  
  
    public static void main(String[] args) {  
        Scanner s = new Scanner(System.in);  
  
        System.out.println("Enter marks1 and marks2 :");  
        int marks1 = s.nextInt();  
        int marks2 = s.nextInt();  
        System.out.println(" marks1 : " + marks1);  
        System.out.println(" marks2 : " + marks2);  
        /*  
        * while ((marks1+marks2)<=200) {  
        * System.out.println("welcome |Total is  
"+(marks1+marks2));  
        *  
    }  
    }  
}
```

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```
* marks1+=10;marks2+=15; }  
*/
```

```
do  
{  
    System.out.println("welcome |Total is  
"+(marks1+marks2));  
  
    marks1+=10;marks2+=15;  
}  
while ((marks1+marks2)<=200);  
  
System.out.println("Thank you");  
  
}
```

```
}  
Enter marks1 and marks2 :
```

```
101 101
```

```
marks1 :101
```

```
marks2 :101
```

```
welcome |Total is 202
```

```
Thank you
```

