-: Loops (Iterative Statement) :-

Entry Controlled loop

   a). while

   b). for

Exit Control loop

   a) do ... while

a) while :-

Syntax :-

while (test condition)   → Boolean expression (true, false)

```
while (test condition)
{
    ≡
}
```

Example

```
int i = 1
while (i <= 10)
{
    System.out.println (i);
    i++;
}
```

11 WAP to take a^Number input from user and print
factorial of that Number

```java
int n, fact = 1;
System.out.println ("Enter a no.");
n = kb.nextInt ();
while (n > 1)
{
    fact = fact * n;
    n--;
}
System.out.println (fact);
}
}
```

for loop:-

Syntax:-

✗

Solution

for(int i=1 ; i<=10, i++)   ✓   int i;

    {

       SOP (i);

    }

SOP (+i)

         X

for(int i=1 ; i<=10; i++)

    {

      SOP (i);

    }

SOP (+i);

declaration बाहर करना होगा loop

में अन्दर declare करने से वो local

variable बन जाता है, इसलिए loop

मे bahar declare करना चाहिए |

WAP to accept two integer from the User and display their Sum. Now ask the User whether he/she wants to Continue or Not. If the Answer in yes then again Repeat the process otherwhe terminate the program displaying msg "Thank you"

```java
import Java.util.Scanner;
public class Main
{
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        String c = "yes";
        while (c. equalsIgnorecase ("yes"))
        {
            System.out.printh ("Enter first Number");
            int first = sc.nextInt();
            System.out.printhl(" Enter Second Number");
            int sec = sc.nextInt();
            int sum = first + sec;
            System.out.println ("the Sum is: " + sum);
            System.out.println (" You want to Cantinue or Not");
            c = sc.next();
        }
    }
```

Nested loop

→ label

bhopal: ←

   for (int ; test cond. ; Statement)

     {

         for (intial ; test cond ; Statement)

          {

            for (inti ; test Condition ; Statement)

             {

               if (test Condition)

                 यदि इससे सारे loop से बाहर

                 निकला है तो use

                 break bhopal;

☆ label is used to बाहर निकलने पूरे loop से

label :-

    | Name : | → label

          break label;