LOOP CONTROL





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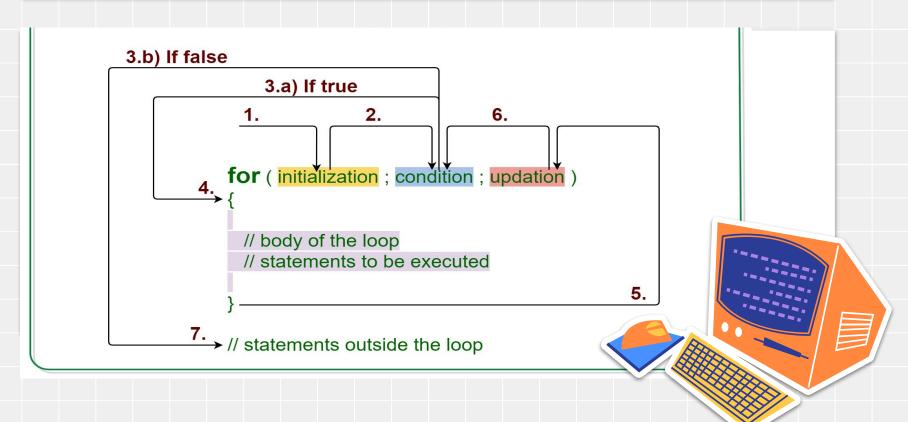




FOR LOOP

We use for loop only when we exactly know the number of times we want to execute a block of code

syntax



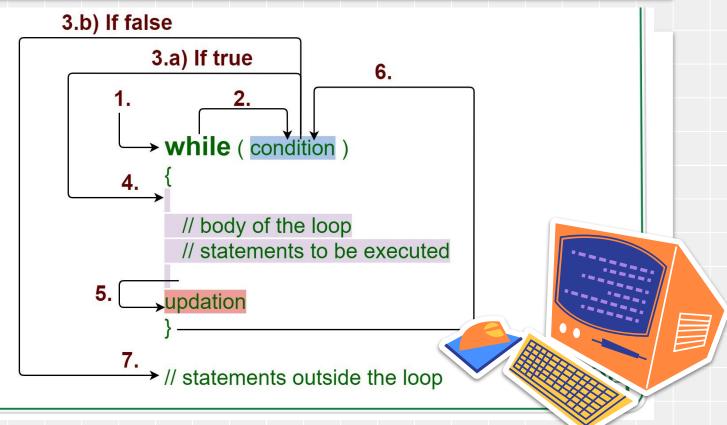
```
//Suppose you want to write a program to print from number 1 -> 10
public class Calculation {
 public static void main(String[] args) {
 int sum = 0;
 for(int j = 1; j <= 10; j++) {
 sum = sum + j;
 System.out.println("The sum of first 10 natural numbers is " + sum);
```



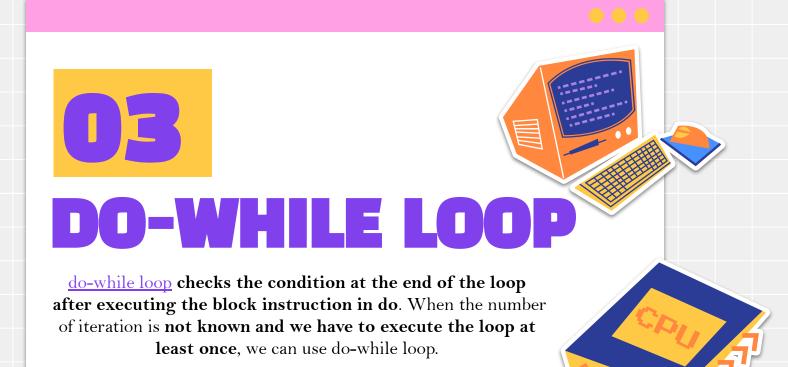
we use while loop If we don't know the number of execution in a block of code.



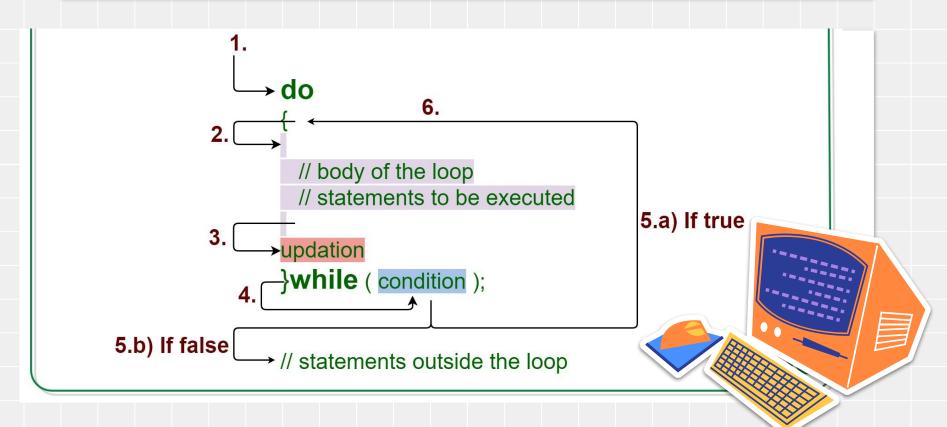
syntax



```
// Suppose you want to print the list of even number in range from 1 -> 10
public class Calculation {
  public static void main(String[] args) {
    int i = 0;
    System.out.println("Printing the list of first 10 even numbers \n");
    while(i <= 10) {
    System.out.println(i);
    i = i + 2;
```



syntax



```
//Suppose we want to output menu at least 1 time
//But we don't know how many time should we print out the menu
public class JavaLoop {
public static void main(String[] args) {
public static void main(String args[])
        Scanner scan = new Scanner(System.in);
        char choice;
        do
            System.out.println("Help on : ");
            System.out.println("1. if");
            System.out.println("2. switch");
            System.out.println("3. while");
            System.out.println("4. do-while");
            System.out.println("5. for\n");
            System.out.println("Choose any one : ");
            choice = scan.next().charAt(0);
        }while(choice < '1' || choice > '5');
```



LOOP CONTROL STATEMENT

Programs usually run step to step but if you want a program to stop at a particular step or skip at a particular step we use loop control statement



Break Statement

The break statement in java is used to terminate a loop and break the current flow of the program.

```
//Suppose we want to stop execute at i = 8 in loop range from 5 -> 10
public class Test
  public static void main(String args[])
                                                   Output:
   for (int i = 5; i < 10; i++)
   if (i == 8)
   break;
   System.out.println(i);
```





2. CONTINUOUS STATEMENT

This statement continues the current flow of the program and skips a part of the code at the specified condition

```
//Suppose we skip all odd numbers in range of 5 -> 15
public class Main
 public static void main(String args[])
   for (int k = 5; k < 15; k++)
    // Odd numbers are skipped
    if (k%2 != 0)
    continue;
   // Even numbers are printed
    System.out.print(k + " ");
```

Output:

68101214



THANK YOU!

