# JUMP Statements

#### break statement

Forces the termination of a loop

- When encountered in a loop,
  - the loop terminates immediately and the execution resumes with the next statement following the loop

If used in a nested loop, quits only the loop from where it is called

## Example:

```
1class breakTest
 2{
      public static void main(String args[])
 3
 4
 5
          for (int j = 0; j < 5; j++)
 6
              // come out of loop when i is 4.
8
              if (j == 4)
 9
                  break;
              System.out.println(j);
10
11
          System.out.println("After loop");
12
      }
13
14}
```

#### continue statement

 'continue' statement forces the next iteration of the loop to take place and skips the code between 'continue' statement and the end of the loop

 In case of for loop, 'continue' makes the execution of the increment portion of the statement and then evaluates the conditional part

 In case of while and do-while loops, 'continue' makes the conditional statement to be executed • Continue statement works same as break but the difference is it only comes out of loop for that iteration and continue to execute the code for next iterations. So it only bypasses the current iteration.

```
1class continueTest
 2{
    public static void main(String args[])
 4
       for (int j = 0; j < 10; j++)
 6
         // If the number is odd then bypass and continue with next value
         if (j%2 != 0)
 8
           continue;
10
         // only even numbers will be printed
         System.out.print(j + " ");
11
12
13
```

## Continue: Control flow

## Labeled break and continue statement

```
Line 0:
              mylabel: for(i=0;i<2;i++)
Line 1:
                     for(j=0;j<5;j++)
Line 2:
                            if(i==2)
                     break mylabel;
Line 3:
Line 4:
                           Statement 1;
Line 5:
                           Statement 2;
Line 6:
                  Statement 3;
Line 7: Statement 4;
```

### Labeled break and continue statement

```
Line 0:
              mylabel: for(i=0;i<2;i++)
Line 1:
                     for(j=0;j<5;j++)
Line 2:
                            if(i==2)
Line 3:
              continue mylabel;
Line 4:
                           Statement 1;
Line 5:
                           Statement 2;
Line 6:
                  Statement 3;
Line 7: Statement 4;
```

#### Return Statement

#### Return

 Return statement is used to transfer the control back to calling method. Compiler will always bypass any sentences after return statement. So, it must be at the end of any method. They can also return a value to the calling method.

```
Example:
class prg
 public static void main(String args[]) {
     int a=2,n=3,s=0;
     s = add(a,n)
     System.out.println("s="+s)
 static int add(int b, int n) {
  int res= b+n;
  return res; }
```

# Reading Input from Keyboard Arrays Conditional and Loop Constructs

## Reading input from keyboard

#### **Declaration:**

int a;

Scanner sc = new Scanner(System.in);
a = sc.nextInt();

Inbuilt Class to be used belongs to the java.util package:

import java.util.Scanner;

```
import java.util.Scanner;
class prg3
     public static void main(String args[]){
         int a,b,c;
          Scanner sc = new Scanner(System.in);
          System.out.println("Enter a first number");
          a = sc.nextInt();
          System.out.println("Enter a second number");
          b = sc.nextInt();
          c = a + b;
          System.out.println("sum is :"+c);
```

## Scanner class methods:

Method	Description
nextBoolean()	Reads a boolean value from the user
nextByte()	Reads a byte value from the user
nextDouble()	Reads a double value from the user
nextFloat()	Reads a float value from the user
nextInt()	Reads an int value from the user
nextLine()	Reads a String value from the user
nextLong()	Reads a long value from the user
nextShort()	Reads a short value from the user

```
1import java.util.Scanner;
   2
   3public class Example {
   4public static void main(String[] args) {
   5Scanner s = new Scanner(System.in);
   6
   7System.out.println("Enter name, age and salary");
   8
   9// String input
  10String name = s.nextLine();
  11
  12// Numerical input
  13int age = s.nextInt();
  14double salary = s.nextDouble();
  15
  16// Output input by user
  17System.out.println("Name: "+ name);
  18System.out.println("Age: "+ age);
  19System.out.println("Salary: "+ salary);
  20}
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```