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## CORE JAVA PROGRAMMING STATEMENT (1Z0-808)

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By [www.HadoopExam.com](http://www.HadoopExam.com)

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**Java Statements:** Controlling which section of the code should be executed. You can have condition and then execute it.

**If Statement:** Conditional Code execution.

```
public class Welcome {
    public static void main(String[] args) {
        int i=10;
        int y=5;

        if(i>y){
            System.out.println("Print 1 : Here I > Y ");
            y=11;
        }

        System.out.println("Print 2 : Value of I = " + i + " Value of Y = " + y);

        if(y>i){
            System.out.println("Print 3 : Here Y > I ");
        }

        //Code will never enter in if condition block as it is always evaluated to false.
        if(i>y){
            System.out.println("Print 4 : Print Here I > Y ");
            y=11;
        }

        if(y>i)
            System.out.println("Print 5 : Here Y > I ");

        System.out.println("Print 6 : End of Program");
    }
}
```

**If-else statement:** Conditional code branching.

```
public class Welcome {
    public static void main(String[] args) {
        int i=10;
        int y=5;
```

```

if(i>y){
    System.out.println("Print 1 : Here I > Y ");
    y=11;
    System.out.println("Print 2 : Value of I = " + i + " Value of Y = " + y);
}
else if(y>i){ //This else block will never be executed. Even condition is true.
    System.out.println("Print 3 : Here Y > I ");
}

//Code will never enter in if condition block as it is always evaluated to false.
if(i>y){
    System.out.println("Print 4 : Print Here I > Y ");
    y=11;
}
else
    System.out.println("Print 5 : Here Y > I ");

//Code will never enter in if condition block as it is always evaluated to false.
    if(i>y){
        System.out.println("Print 6 : Print Here I > Y ");
        y=11;
    }
    else if(y>i)
        System.out.println("Print 7 : Here Y > I ");

/*if(int val=5){ //Will not compile
    System.out.println("Print 8 ");
}*/

System.out.println("Print 9 : End of Program");
}
}

```

**Ternary Operator: (? : )** : This can work on up to three expression. It is equivalent to if-then-else block.

**(Always a Boolean expression) ? (If Boolean expression is true then this section) : (if Boolean expression is false then this section)**

```

public class Welcome {
    public static void main(String[] args) {
        //if then else example
        int y = 20;
        int x = 0;
        if (y > 5) {
            x = 3 * y;
        } else {
            x = 4 * y;
        }
        System.out.println("Value of x = " + x + " Value of y = " + y);

        //Ternary operator
        y=20;
        x=0;
        int result = (y>5) ? x= 3*y : 4*y;
        System.out.println("Value of x = " + x + " Value of y = " + y + " And result = " + result);

        //Behaves like short circuit operator
        int val1 = 1;
        int val2 = 1;
        final int val3 = val2<2 ? val1++ : val2++;
        System.out.println(val1+","+val2+ ","+ val3); // Outputs 2,1,1
    }
}

```

**switch operator:** Complex decision making statement.

- is a complex decision-making structure in which a single value is evaluated and flow is redirected to the first matching branch (case statement )
- If no such case statement is found that matches the value, an optional *default* statement will be called.
- If no such default option is available, the entire switch statement will be skipped.
- Data type of switch value and case value should be same.
- In each case, you must have break; statement.
- Even though the default block was before the case block, only the case block was executed.
- default is only branched to if there is no matching case value for the switch statement, regardless of its position within the switch statement.
- the case statement value must also be a literal, enum constant, or final constant variable.

```
public class Welcome {
    public static void main(String[] args) {
        int monthVal=Integer.parseInt(args[0]);
        //Also try with removing break statement.
        switch(monthVal){
            case 1 :
                System.out.println("Jan");
                break;
            case 2 :
                System.out.println("Feb");
                break;
            case 3 :
                System.out.println("Mar");
                break;
            case 4 :
                System.out.println("Apr");
                break;
            default:
                System.out.println("No proper month value");
            case 5 :
                System.out.println("May");
                break;
        }
    }
}
```

```
public class Welcome {
    public static void main(String[] args) {

        String sitename = "HadoopExam";
        String www = "www.";
        String name = "HadoopExam";
        String com = ".com";
        int value = 0;

        switch (name) {
            case "Hadoop":
                break;
            case sitename:
```

```
        value = 1;
        break;
    case www:
        value = 2;
        break;
    case com:
        value = 3;
        break;
    case 5000: // DOES NOT COMPILE
        value = 4;
        break;
    case 'H': // DOES NOT COMPILE
        value = 5;
        break;
    case Welcome.class: // DOES NOT COMPILE
        value = 6;
        break;
    }
}
```

**Data types supported by switch statements include the following:**

int and Integer
byte and Byte
short and Short
char and Character
int and Integer
String
enum values

**while statement:** (it is also known as while loop)

- Infinite while loop

```
public class Welcome {
    public static void main(String[] args) {

        while(true){
            System.out.println("I am learning Java from HadoopExam.com");
        }
    }
}
```

#### - Controlled while loop

```
public class Welcome {
    public static void main(String[] args) {

        int i = 0;

        while (i < 10) {
            System.out.println("I am learning Java from HadoopExam.com value of i " + i);
            i++;
        }

        while (i > 10) { //will not pass this condition
            System.out.println("I am learning Java from HadoopExam.com value of i " + i);
            i++;
        }

        int j=5;
        while (i > 10 || j<10) {
            System.out.println("I am learning Java from HadoopExam.com value of i " + i + " And
value of j " + j);
            j++;
        }

        while (i < 11 || j<10) { //Infinite loop
            System.out.println("I am learning Java from HadoopExam.com value of i " + i + " And
value of j " + j);
            j++;
            //if(j>2000) //uncomment and test again
            //break;
        }
    }
}
```



```
}  
}
```

### do-while loop

- a do-while loop guarantees that the statement or block will be executed at least once.
- It is your choice, which one to use while or do-while.
- It is recommended you use while.

```
public class Welcome {  
    public static void main(String[] args) {  
  
        int i = 0;  
        do {  
            i++;  
        } while (false);  
        System.out.println(i);  
    }  
}
```

### for statement : another controlled looping.

```
public class Welcome {  
    public static void main(String[] args) {  
  
        for(int i=0; i<10; i++){  
            int j=0;  
            System.out.println("Value of i = " + i + "Value of j = " + j++);  
        }  
        //Both i and j are local variable  
        //System.out.println("Value of J" + j); // j will not be available here.  
        //System.out.println("Value of i" + i); // i will not be available here.  
    }  
}
```

### Infinite for loop

```
public class Welcome {
    public static void main(String[] args) {

        for( ; ; ) {
            System.out.println("Welcome to HadoopExam.com");
        }
    }
}
```

```
public class Welcome {
    public static void main(String[] args) {

        for( int i=0, j=0; i<10 && j<10 ; ) {
            System.out.println("Value of i " + i + " Value of j " + j);
            i++; j++;
        }
    }
}
```

**Below code will not compile:** Because you are trying re-initialize the j

```
public class Welcome {
    public static void main(String[] args) {

        int j=0;
        for( int i=0, j=4; i<10 && j<10 ; ) {
            System.out.println("Value of i " + i + " Value of j " + j);
            i++; j++;
        }
    }
}
```

**Incompatible data type in initialization block:**

```
public class Welcome {
    public static void main(String[] args) {
        // This code will not compile. As you can not use different data type.
        for(long y = 0, int x = 1; x < 5 && y<10; x++, y++) {
```

```
        System.out.print(x + " ");  
    }  
}
```

**for each statement :** (It is added only in Java 5.0)

```
for(datatype instance : collection/array)
```

- Collection/array must be iterable : an object whose class implements java.lang.Iterable

```
public class Welcome {  
    public static void main(String[] args) {  
        int i = 0;  
        for (char c : "HadoopExam".toCharArray()) {  
            System.out.println(c);  
        }  
    }  
}
```

- **Array of strings example**

```
public class Welcome {  
    public static void main(String[] args) {  
        int i = 0;  
        for (String siteName : args) {  
            System.out.println(siteName);  
        }  
    }  
}
```

- **Iterating over list**

```
import java.util.ArrayList;  
import java.util.List;
```

```
public class Welcome {
    public static void main(String[] args) {
        List<String> list = new ArrayList<String>();
        list.add("HadoopExam.com");
        list.add("QuickTechie.com");
        list.add("Training4Exam.com");

        for (String siteName : list) {
            System.out.println(siteName);
        }
    }
}
```

- **For-each loop is just an compile time enhancements. Once code is compiled java internally convert it into normal for loop.**

#### **Nested Loops : Loop inside loop.**

```
public class Welcome {
    public static void main(String[] args) {
        for(int i=0; i<5;i++){
            for(int j=0;j<3;j++){
                System.out.println("Value of i = " + i + " Value of j = " + j);
            }
        }
    }
}
```

#### **Formatted output of nested loops.**

```
public class Welcome {
    public static void main(String[] args) {
        for(int i=0; i<5;i++){
            for(int j=0;j<3;j++){
                System.out.print(i+", "+j + "\t");
            }
            System.out.println();
        }
    }
}
```

**break statement** : Break the loop and come out of the loop

- You can use in any loop this break statement while, for, for-each, do-while etc.

```
public class Welcome {
    public static void main(String[] args) {
        int j=0;
        for(int i=0; i<5;i++){
            System.out.println("Value of i " + i);
            j++;
            if(j>3)
            {
                break;
            }
        }
    }
}
```

**continue statement** :

```
public class Welcome {
    public static void main(String[] args) {
        int j=0;
        for(int i=0; i<5;i++){
            j++;
            if(j==3)
            {
                continue;
            }
            System.out.println("Value of i " + i + " Value of j " + j);
        }
    }
}
```

```
public class Welcome {
    public static void main(String[] args) {
        int j=0;
        for(int i=0; i<5;i++){
            if (i<3){
                continue;
            }
            System.out.println("Inside while loop : value of i = " + i);
        }
    }
}
```

- While the break statement transfers control to the enclosing statement
- the continue statement transfers control to the boolean expression that determines if the loop should continue. it ends the current iteration of the loop.

```
public class Welcome {
    public static void main(String[] args) {
        FIRST_LOOP: for (int count = 1; count <= 4; count++) {
            for (char seq = 'a'; seq <= 'c'; seq++) {
                if (count == 2 || seq == 'b')
                    continue FIRST_LOOP;
                System.out.print(" " + count + seq);
            }
        }
    }
}
```

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