

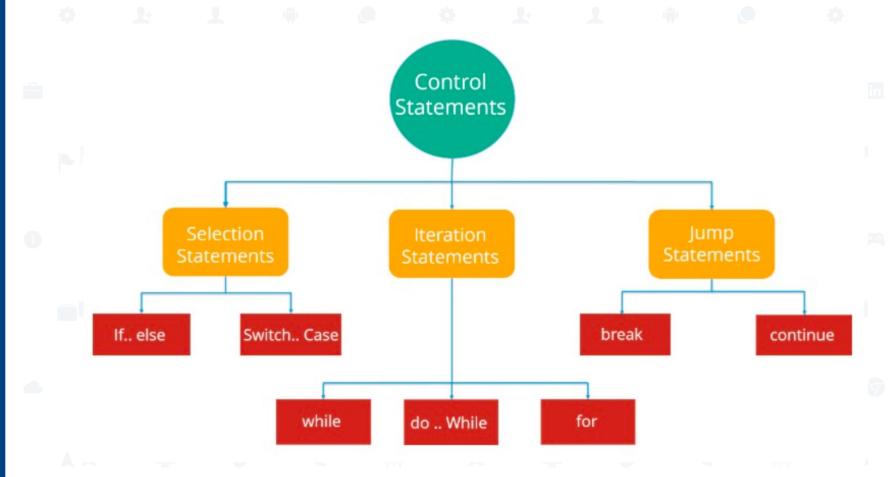
```
public class Task1 {
    public static void main(String[] args) {
        int a = 3;
        int b = a + + + + + a;
        System.out.println("a: " + a);
        System.out.println("b: " + b);
```

```
public class Task2 {
    public static void main(String[] args) {
        int a = 5;
        int b = 10;
        int c = a ++ + --b + ++a - b --;
        System.out.println("a: " + a);
        System.out.println("b: " + b);
        System.out.println("c: " + c);
```

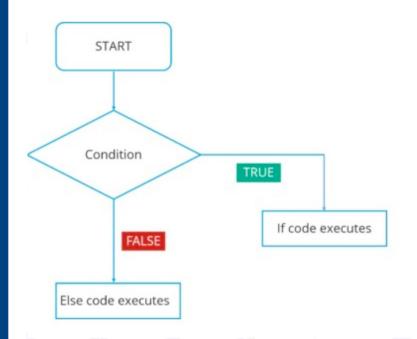
```
public class Task3 {
    public static void main(String[] args) {
        int num = -5;
        int absValue = (num < 0) ? -num : num;
        System.out.println("Absolute value: " + absValue);
```

```
public class Task4 {
    public static void main(String[] args) {
        int x = 10, y = 15;
        String result = (x > y) ? "x больше у" : ((x < y) ? "x меньше у" : "x равен у");
        System.out.println(result);
    }
}</pre>
```

Java control statements



if-else statements

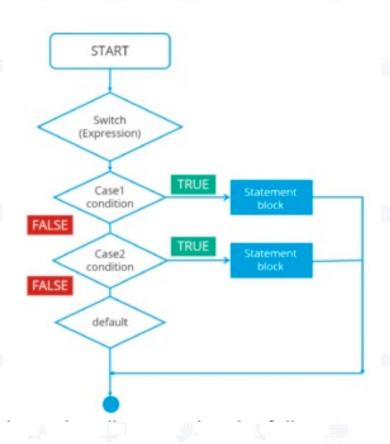


```
public class Compare {
    int a=10,
    int b=5;

if(a>b)
    { // if condition
    System.out.println(" A is greater than B");
    }

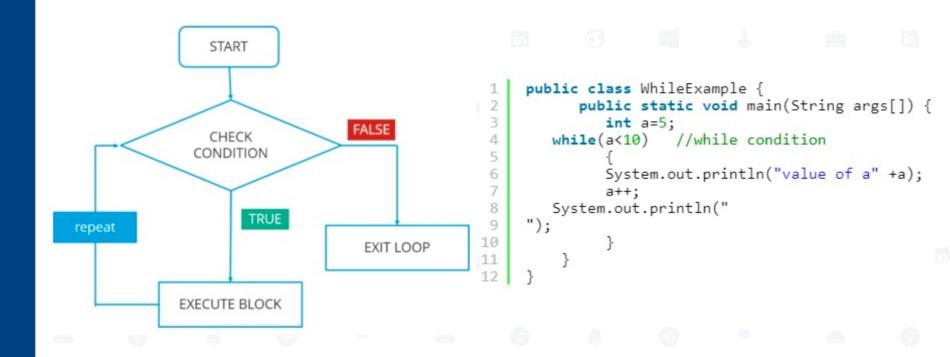
else
    { // else condition
    System.out.println(" B is greater");
}
}
```

Switch case

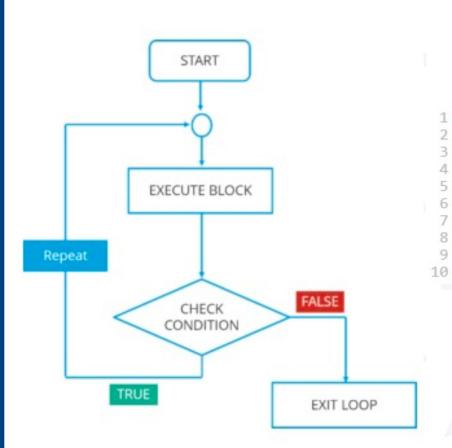


```
public class SwitchExample {
          int week=7;
          String weeknumber;
 4
     switch(week){
                      // switch case
 6
     case 1:
               weeknumber="Monday";
            break;
 9
10
     case2:
11
               weeknumber="tuesday";
12
            break;
13
14
     case3:
15
               weeknumber="wednesday";
16
            break;
17
18
     default:
                      // default case
               weeknumber="invalid week";
19
20
            break;
21
22
       System.out.println(weeknumber);
23
24
```

While statement



Do-while statement:



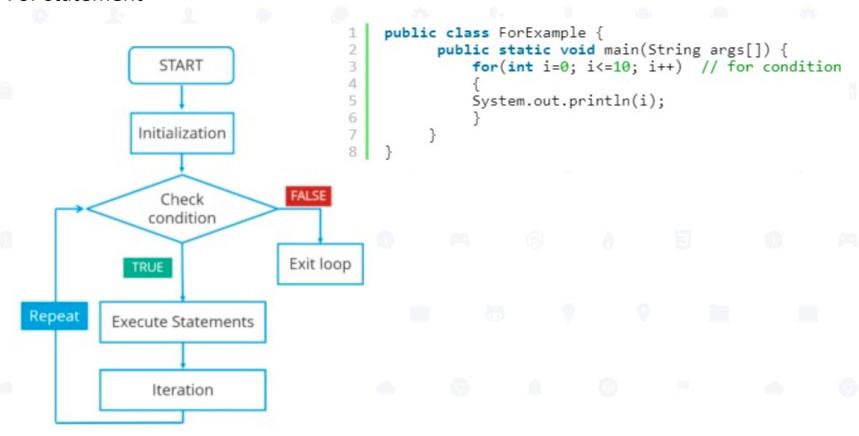
```
public class DoWhileExample {
      public static void main(string args[]){
          int count=1;
                            // do statement
do {
     System.out.println("count is:"+count);
     count++;
 while (count<10)
                            // while condition
```

4

6

9

For statement



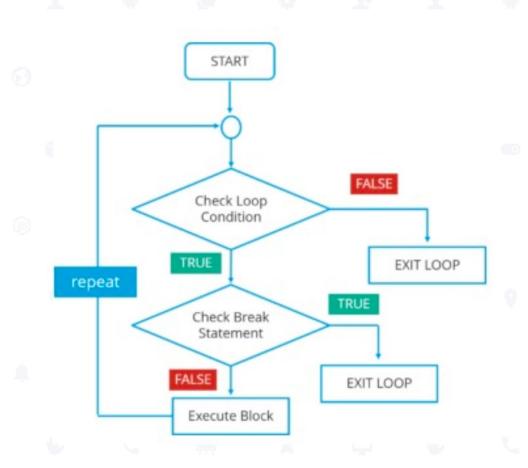
Foreach

- это разновидность цикла for
- используется для перебора элементов массива или коллекции

```
1  class Test {
2
3    public static void main(String[] args) {
4        int[] array = {51,136, 387};
5
6        for (int i = 0; i < array.length; i++)
7        System.out.println(array[i]);
8        }
9    }
10 }</pre>
```

```
1  class Test {
2
3    public static void main(String[] args) {
4        int[] array = {51,136,387};
5
6        for (int i:array) {
7            System.out.println(i);
8        }
9    }
10 }
```

Break statement



Continue statement START FALSE Check Loop Condition TRUE **EXIT LOOP** repeat Execute Block 1 Check Continue Statement TRUE FALSE Execute Block 2