

Java Break and Continue

Java Break

Break statements are generally used when we are unsure of the precise number of loop iterations or when we want to end the loop based on a condition.

Sample Code

```
for (int i = 0; i < 10; i++) {  
    if (i == 5) {  
        break;  
    }  
    System.out.println(i);  
}
```

Output

```
0  
1  
2  
3  
4
```

Sample Code 1.1

```
import java.util.Scanner;  
  
class UserInputSum {  
    public static void main(String[] args) {  
  
        Double number, sum = 0.0;  
  
        // create an object of Scanner  
        Scanner input = new Scanner(System.in);  
  
        while (true) {
```

```

System.out.print("Enter a number: ");

// takes double input from user
number = input.nextDouble();

// if number is negative the loop terminates
if (number < 0.0) {
    break;
}

sum += number;
}
System.out.println("Sum = " + sum);
}
}

```

Output

```

Enter a number: 3.2
Enter a number: 5
Enter a number: 2.3
Enter a number: 0
Enter a number: -4.5
Sum = 10.5

```

Java Continue

We use continue statements when we want to continue the loop but do not want the statement that follows the continue statement.

Sample Code

```

for (int i = 0; i < 8; i++) {

    if (i == 6) {
        continue;
    }

    System.out.println(i);
}

```

```
}
```

Output

```
0
1
2
3
4
5
7
```

Sample Code 1.1

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

        // for loop
        for (int i = 1; i <= 10; ++i) {

            // if value of i is between 4 and 9
            // continue is executed
            if (i > 4 && i < 9) {
                continue;
            }
            System.out.println(i);
        }
    }
}
```

Output

```
1
2
3
4
9
10
```

Break and Continue in While Loop

Sample Code (Break)

```
int i = 0;
while (i < 10) {
    System.out.println(i);
    i++;
    if (i == 4) {
        break;
    }
}
```

Output

```
0
1
2
3
```

Sample Code (Continue)

```
int i = 0;
while (i < 10) {
    if (i == 4) {
        i++;
        continue;
    }
    System.out.println(i);
    i++;
}
```

```
}
```

Output

0

1

2

3

5

6

7

8

9

References

- <https://www.geeksforgeeks.org/break-and-continue-statement-in-java/>
- <https://www.programiz.com/java-programming/continue-statement>
- https://www.w3schools.com/java/java_break.asp