#### 1. Introduction

In Java, 'break' and 'continue' are important control statements.

- 'break' is used to terminate loops or switch statements immediately.
- 'continue' is used to skip the current iteration and jump to the next loop cycle.

#### 2. break Statement

- Terminates the innermost loop or switch statement immediately.
- Commonly used with for, while, do-while, and switch.

## Syntax:

```
break;
```

## **Example 1: Using break in a for loop**

```
public class BreakExample {
    public static void main(String[] args) {
        for (int i = 1; i <= 10; i++) {
            if (i == 5) {
                break;
            }
                System.out.println(i);
        }
    }
}</pre>
```

## Output:

1

2

3

4

# Example 2: Using break in a while loop

```
public class BreakWhileExample {
   public static void main(String[] args) {
     int i = 1;
```

```
while (i <= 5) {
    if (i == 3) {
        break;
    }
    System.out.println(i);
    i++;
}
}</pre>
```

Output:

1

2

## 3. continue Statement

- Skips the remaining code for current iteration and proceeds to next iteration.
- Used with for, while, and do-while loops.

Syntax:

```
continue;
```

# **Example 1: Using continue in a for loop**

```
public class ContinueExample {
    public static void main(String[] args) {
        for (int i = 1; i <= 5; i++) {
            if (i == 3) {
                continue;
            }
            System.out.println(i);
        }
    }
}</pre>
```

## Output:

1

2

4

5

# **Example 2: Using continue in a while loop**

```
public class ContinueWhileExample {
    public static void main(String[] args) {
        int i = 0;
        while (i < 5) {
            i++;
            if (i == 2) {
                 continue;
            }
            System.out.println(i);
        }
    }
}</pre>
```

## Output:

1

3

4

5

## 4. break vs continue

Comparison table between break and continue:

Feature	break	continue
Purpose	Exits the loop or switch	Skips current iteration
After Execution	Moves control outside the loop	Moves control to next iteration
Usage	Loops and switch	Only loops

# 5. Using Labels with break and continue

- Labels allow you to break or continue outer loops, not just inner ones.

# **Example: break with label**

## Output:

1 1

12

13

2 1

# **Example: continue with label**

## Output:

1 1

2 1