Snippet 1:

```java
public class NestedLoopOutput {

    public static void main(String[] args) {

        for (int i = 1; i <= 3; i++) {

            for (int j = 1; j <= 2; j++) {

                System.out.print(i + " " + j + " ");

            }

            System.out.println();

        }

    }

}
```

// Guess the output of this nested loop.

1 1 1 2

2 1 2 2

3 1 3 2

Snippet 2:

```java
public class DecrementingLoop {

    public static void main(String[] args) {

        int total = 0;

        for (int i = 5; i > 0; i--) {

            total += i;

            if (i == 3) continue;

            total -= 1;

        }

    System.out.println(total);

    }

}
```

// Guess the output of this loop.

o/p:

11

Snippet 3:

```java
public class WhileLoopBreak {

    public static void main(String[] args) {

        int count = 0;

        while (count < 5) {

            System.out.print(count + " ");

            count++;

            if (count == 3) break;

        }

        System.out.println(count);

    }

}
```

// Guess the output of this while loop.
Ans: 0 1 2 3

Snippet 4:

```java
public class DoWhileLoop {

    public static void main(String[] args) {

        int i = 1;

        do {

            System.out.print(i + " ");

            i++;

        } while (i < 5);

        System.out.println(i);

    }

}
```

// Guess the output of this do-while loop.

o/p: 1 2 3 4 5

Snippet 5:

```java
public class ConditionalLoopOutput {

        public static void main(String[] args) {

                int num = 1;

                 for (int i = 1; i <= 4; i++) {

                        if (i % 2 == 0) {

                                num += i;

                        } else {

                                num -= i;

                        }

                }

                System.out.println(num);

        }

}
```

// Guess the output of this loop.

o/p:1

Snippet 6:

```java
public class IncrementDecrement {

        public static void main(String[] args) {

                int x = 5;

                int y = ++x - x-- + --x + x++;

                System.out.println(y);

        }

}
```

// Guess the output of this code snippet.

Ans : 8

Snippet 7:

```java
public class NestedIncrement {

    public static void main(String[] args) {

        int a = 10;

        int b = 5;

        int result = ++a * b-- - --a + b++;

        System.out.println(result);

    }

}
```

// Guess the output of this code snippet.

Ans: 49

Snippet 8:

```java
public class LoopIncrement {

    public static void main(String[] args) {

        int count = 0;

        for (int i = 0; i < 4; i++) {

            count += i++ - ++i;

        }

        System.out.println(count);

    }

}
```

// Guess the output of this code snippet.

Ans: 4