

Java Exercises – Conditional Statements & StringTokenizer

1. if / else Exercises

Exercise 1

Write a Java program that checks whether a number is **divisible by 5**.

Expected Output

- "Divisible by 5"
 - "Not divisible by 5"
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Exercise 2

Given two String `a` and `b`, write a program that prints:

- "Equal" if both Strings are the same
 - "Not Equal" otherwise
-

2. Ternary Operator Exercises

Exercise 3

Using a **ternary operator**, assign:

- "Maximum" if `a > b`
 - "Minimum" otherwise
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Exercise 4

Given an integer `temp`, store the result in a variable:

- "Hot" if temperature ≥ 30
- "Normal" otherwise

Use **only the ternary operator**.

3. switch Exercises

Exercise 5

Write a program using `switch` that:

- Takes a character (A, E, I, O, U)
 - Prints "Vowel" if it is a vowel
 - Prints "Consonant" for any other character
-

Exercise 6

Predict the output of the following code and explain why:

```
int choice = 3;

switch (choice) {
    case 1:
        System.out.print("One ");
        break;
    case 2:
        System.out.print("Two ");
    case 3:
        System.out.print("Three ");
        break;
    default:
        System.out.print("Default ");
}
```

4. StringTokenizer Exercises

Exercise 7

Given the following string:

```
String text = "red|green|blue|yellow";
```

Use StringTokenizer to print each color on a new line.

Exercise 8

Given:

```
String numbers = "5:10:15";
```

- Use StringTokenizer
- Calculate and print the average of the numbers

5. Challenge Exercise

Exercise 9

Given:

```
String input = "A,B,,C,D,,,";
```

Tasks:

- Use StringTokenizer
- Count how many non-empty tokens are present

- Print the count