## **Syntax and Basic Structure**

1. **Explain**: Is Java case-sensitive? Provide an example showing the difference between two variables with similar names but different cases.

## **Variables and Data Types**

- 3. **Practice**: Declare and initialize variables of each primitive data type (int, double, char, boolean) and print their values.
- 4. **Explore**: Demonstrate both widening and narrowing casting in Java with examples using numeric data types.

## **Input and Output**

- 5. **Experiment**: Create a program using the Scanner class to take three different types of user inputs: String, int, and double. Display the inputs formatted in a sentence.
- 6. **Error Handling**: Modify the provided input example to handle cases where the user enters an invalid input type (e.g., entering text where a number is expected).

## **Basic Example - Area Calculation**

- 7. **Fix and Improve**: Correct the errors in the provided RectangleArea example (semicolon and syntax issues) and add functionality to accept length and width as user inputs instead of hardcoding them.
- 8. **Extend**: Enhance the RectangleArea program to also calculate and display the perimeter of the rectangle.