Problem 1: Square Root Calculation (Easy Level)

Description:
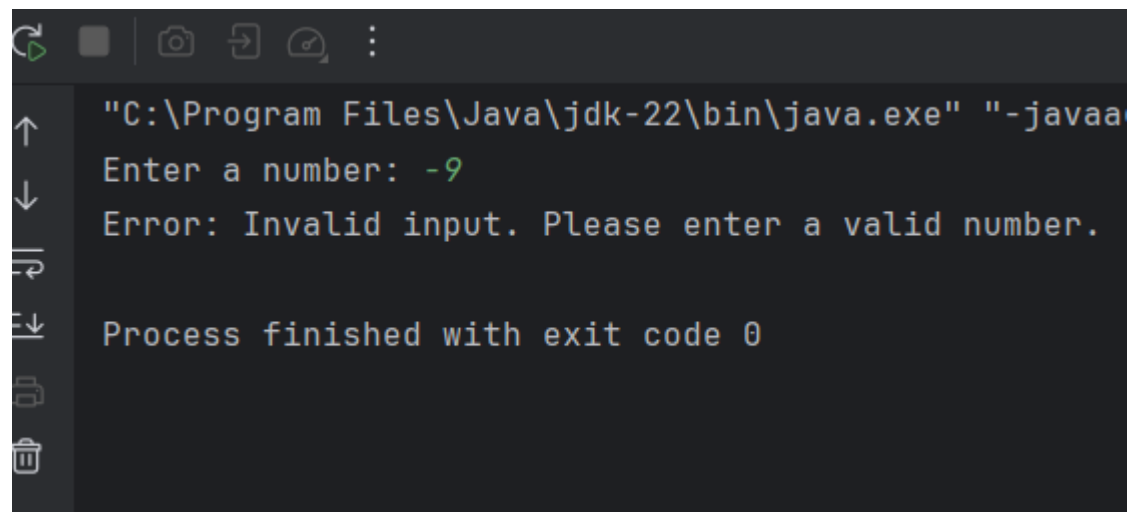Write a Java program to calculate the **square root** of a number.

- **Use try-catch** to handle invalid inputs (negative numbers or non-numeric values).

Code:

```java
import java.util.Scanner;

class SquareRootCalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        try {
            double number = scanner.nextDouble();
            if (number < 0) {
                throw new IllegalArgumentException("Error: Cannot calculate
the square root of a negative number.");
            }
            System.out.println("Square Root: " + Math.sqrt(number));
        } catch (Exception e) {
            System.out.println("Error: Invalid input. Please enter a valid
number.");
        }
    }
}
```

Output: