



Experiment 3

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Branch: CSE

Semester: 6th

Subject Name: Java

UID: 22BCS50122

Section/Group: 22BCS_IOT-635(B)

Date of Performance: 03/03/2025

Subject Code: 22CSH-352

- 1. Aim:** Write a Java program to calculate the square root of a number entered by the user. Use try-catch to handle invalid inputs (e.g., negative numbers or non-numeric values).

2. Code:

```
import java.util.Scanner;
```

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



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3. Output:-

```
Enter a number: -16  
Error: Cannot calculate the square root of a negative number.
```