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Section: B

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Subject: Object Oriented Programming Lab

Practical-8

- **Problem Definition:**

  Write a program in Java to calculate the result of equation a/(b-c). Handle the exception if (b-c) results in zero. Also write a default exception for any other exception.

- **Program:**

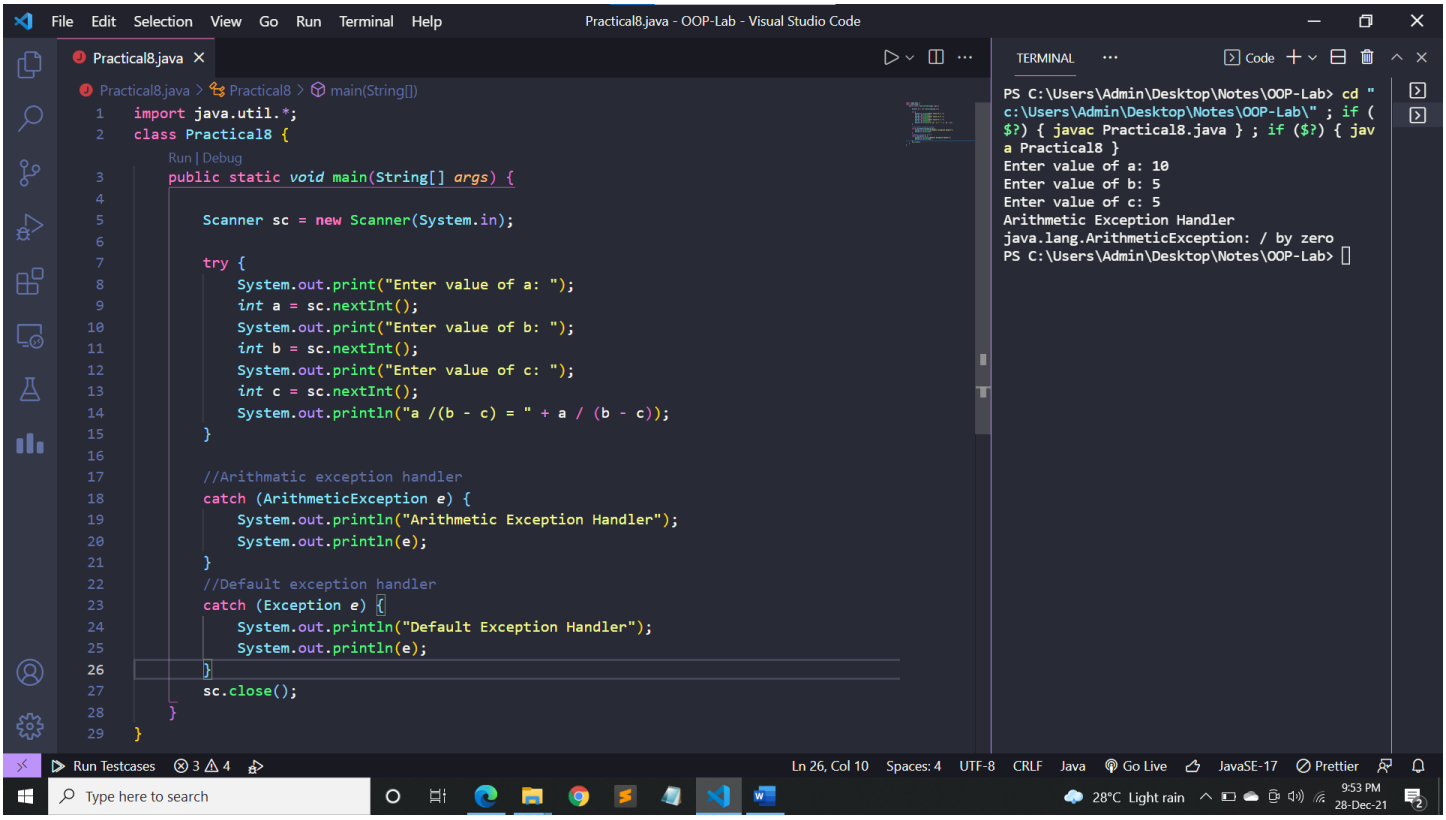
```java
import java.util.*;
class Practical8 {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        try {
            System.out.print("Enter value of a: ");
            int a = sc.nextInt();
            System.out.print("Enter value of b: ");
            int b = sc.nextInt();
            System.out.print("Enter value of c: ");
            int c = sc.nextInt();
            System.out.println("a /(b - c) = " + a / (b - c));
        }

        //Arithmetic exception handler
        catch (ArithmeticException e) {
            System.out.println("Arithmetic Exception Handler");
            System.out.println(e);
        }
        //Default exception handler
        catch (Exception e) {
            System.out.println("Default Exception Handler");
            System.out.println(e);
        }
```

```
        sc.close();
    }
}
```

- **Output:**

```
Enter value of a: 10
Enter value of b: 5
Enter value of c: 5
Arithmetic Exception Handler
java.lang.ArithmeticException: / by zero
```

- **Screenshot:**



- **Result:**

  By studying implementation of concept of exception in Java, I have successfully completed Practical-8.