```java
// Program to demonstrate multiple catch blocks for Exception Handling
public class MultipleException {
    public static void main(String[] args) {
        try {
            // First potential error
            int a = 10;
            int b = 0;
            // This line will throw ArithmeticException
            int result = a / b;
            System.out.println("Result: " + result);
            // Second potential error (This code will not be reached)
            int[] numbers = {10, 20, 30};
            System.out.println(numbers[5]);
        }
catch (ArithmeticException e)
{
System.out.println(e);
        System.out.println("Error: Cannot divide a number by zero.");

    }
 catch (ArrayIndexOutOfBoundsException e)
{
        System.out.println(e);
        System.out.println("Error: Array index is out of range.");

    }
 catch (Exception e)
{
        // This will catch any other type of exception
```

```java
            System.out.println("An unexpected error occurred: " + e.getMessage());

        }

        System.out.println("Program continues after handling exceptions.");

    }

}
```

OUTPUT:-

java.lang.ArithmeticException: / by zero

Error: Cannot divide a number by zero.

Program continues after handling exceptions.