

Phase-1 Practice Project: Assisted Practice

5. Writing a program in Java to throws, throw, finally, and custom exceptions in Java.

```
package Demo;

import java.util.Scanner;

public class ExceptionDemo {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        try {

            int x = scanner.nextInt();

            int y = scanner.nextInt();

            if (y == 0) {

                throw new DivideByZeroException("Cannot divide by zero");

            }

            int result = x / y;

            System.out.println("Result: " + result);

        } catch (DivideByZeroException e) {

            System.err.println(e.getMessage());

        } catch (Exception e) {

            System.err.println("Error: " + e.getMessage());

        } finally {

            System.out.println("End of program");

        }

    }

}

class DivideByZeroException extends Exception {
```

```
public DivideByZeroException(String message) {  
    super(message);  
}  
}
```

<terminated> ExceptionDemo [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

2 0

End of program

Cannot divide by zero