

**Java Programming Lab (PMCA502P)****Exercise 7 C: Exception Handling**

1. Write a Java program that reads data from a file named "input.txt" and prints its content to the console. If the file does not exist or cannot be read, catch the IOException, display an appropriate error message, and gracefully handle the exception

**Code:**

```
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class File_Read {
    public static void main(String[] args) {
        File file = new File("input.txt");
        try {
            Scanner scanner = new Scanner(file);
            while (scanner.hasNextLine()) {
                String line = scanner.nextLine();
                System.out.println(line);
            }
            scanner.close();
        } catch (FileNotFoundException e) {
            System.out.println("Error File has not found.");
            e.printStackTrace();
        }
    }
}
```

**Output:**

PROBLEMS   OUTPUT   PORTS   TERMINAL   COMMENTS

```
d:\Coding\Java\Ex7c\1>cd "d:\Coding\Java\Ex7c\1\" && javac File_Read.java && java File_Read
Hello World!
This is Vinayak Singh from MCA Department 23MCA1030.
```

2. Write a Java program that reads data from a file named "input.txt" and prints its content to the console. If the file does not exist or cannot be read, catch the IOException, display an appropriate error message, and gracefully handle the Exception.

### Code:

```
import java.util.Scanner;
public class Dynamic_Load {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Class<?> loadedClass = null;
        while (loadedClass == null) {
            try {
                System.out.print("Enter fully name of class: ");
                String className = scanner.nextLine();
                loadedClass = Class.forName(className);
                Object instance = loadedClass.getDeclaredConstructor().newInstance();
                System.out.println("Loaded class: " + instance.getClass().getName());
            } catch (ClassNotFoundException e) {
                System.out.println("Error class not found.");
            } catch (Exception e) {
                System.out.println("Error: " + e.getMessage());
            }
        }
        scanner.close();
    }
}
```

### Output:

```
d:\Coding\Java\Ex7c\2>cd "d:\Coding\Java\Ex7c\2\" && javac Dynamic_Load.java && java Dynamic_Load
Enter fully name of class: com.example.vinayak
Error class not found.
Enter fully name of class: java.lang.String
Loaded class: java.lang.String
```