# **Assignment 05:**

Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.

Add a debugging mode that prints additional information when enabled.

## Code-:

## **Output-:**

}

}

```
Microsoft Windows [Version 10.0.19045.4291]
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C:\Users\user\Desktop>javac CreateFiles.java
C:\Users\user\Desktop>java CreateFiles
Directory already exists.
File created: File1.txt
File created: File2.txt
File created: File3.txt
File created: File4.txt
File created: File5.txt
File created: File6.txt
File created: File7.txt
File created: File8.txt
File created: File9.txt
File created: File10.txt
C:\Users\user\Desktop>
```

#### **Explanation:**

- 1. debugMode Flag: We introduce a debugMode boolean flag set to true by default.
- 2. Separate Methods: The logic for creating the directory and files is encapsulated in separate methods:
  - createDirectory(String directoryName, boolean debugMode):
    - Handles directory creation with additional logging based on debugMode.

- createFile(String directoryName, String fileName, boolean debugMode):
  - Creates individual files with error handling and logging based on debugMode.

### 3. Directory Creation:

- The createDirectory method checks if the directory exists.
- If it doesn't exist, it attempts to create it using mkdir().
  - In debugMode, it prints a message indicating directory creation.
  - If creation fails, an error message is printed.
- If the directory already exists (and debugMode is enabled), a message is printed informing the user.

#### 4. File Creation:

- The createFile method takes the directory name, filename, and debugMode as arguments.
- A try-with-resources block is used to manage the FileWriter.

- Inside the block:
  - . The file is created.
  - . The filename is written to the file.
  - If debugMode is enabled, a message is printed with the absolute path of the created file.
- The catch block handles potential
   IOException during file creation and prints an error message with the exception details.