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Internship Week (1) Day 2 Task

Step 1: Setting Up IntelliJ IDEA

- 1. Open IntelliJ IDEA.
- 2. Create a New Project:
 - o Click on File > New > Project.
 - Select Maven on the left side.
 - o Check Create from archetype if you need a predefined structure.
- 3. Advanced settings Details:
 - o GroupId: com.tripillar.filehandling
 - o ArtifactId: FileHandlingProject
 - o Version: Leave default (or 1.0-SNAPSHOT).
 - o Click Finish.

Step 2: Adding Apache POI Dependency for Excel Handling

- 1. **Open the pom.xml file** from the project root.
- 2. Inside <dependencies>, add the following dependencies for Apache POI (for Excel handling):

```
Pom.xml
```

<!-- For parsing XSSF files (Excel 2007+) -->

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```
<dependency>
     <groupId>org.apache.xmlbeans</groupId>
          <artifactId>xmlbeans</artifactId>
          <version>5.1.1</version>
          </dependency>
</dependencies>
```

3. **Reload Maven** to download the dependencies: You can press the Reload button in the Maven tool window.

Step 3: Creating Package Structure

- 1. In the src/main/java folder, right-click and create two packages:
 - o com.tripillar.filehandling.text
 - o com.tripillar.filehandling.excel

Step 4: Writing Code for Text File Handling

a. WriteTextFile.java

- 1. Inside the text package, create a new Java class WriteTextFile.java.
- 2. Write code to create and write to a text file using BufferedWriter and FileWriter:

```
java
package com.tripillar.filehandling.text;

import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;

public class WriteTextFile {
   public static void main(String[] args) {
      String fileName = "example.txt";
      try (BufferedWriter writer = new BufferedWriter(new FileWriter(fileName))) {
      writer.write("Hello, this is a sample text.");
      System.out.println("Text file written successfully.");
```

a Ashish M 1NH23MC026 } catch (IOException e) { e.printStackTrace(); } } } b. ReadTextFile.java 1. Create another Java class ReadTextFile.java. 2. Write code to read from a text file using BufferedReader and FileReader: java package com.tripillar.filehandling.text; import java.io.BufferedReader; import java.io.FileReader; import java.io.IOException; public class ReadTextFile { public static void main(String[] args) { String fileName = "example.txt"; try (BufferedReader reader = new BufferedReader(new FileReader(fileName))) { String line; while ((line = reader.readLine()) != null) { System.out.println(line); } } catch (IOException e) { e.printStackTrace(); } } }

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Step 5: Writing Code for Excel File Handling

a. WriteExcelFile.java

- 1. Inside the excel package, create a Java class WriteExcelFile.java.
- 2. Write code to create an Excel file using Apache POI:

```
java
package com.tripillar.filehandling.excel;
import org.apache.poi.ss.usermodel.*;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import java.io.FileOutputStream;
import java.io.IOException;
public class WriteExcelFile {
  public static void main(String[] args) {
    String fileName = "example.xlsx";
    Workbook workbook = new XSSFWorkbook();
    Sheet sheet = workbook.createSheet("SampleSheet");
    // Creating a row and adding data
    Row row = sheet.createRow(0);
    row.createCell(0).setCellValue("Name");
    row.createCell(1).setCellValue("Age");
    Row row1 = sheet.createRow(1);
    row1.createCell(0).setCellValue("John Doe");
    row1.createCell(1).setCellValue(25);
```

Ashish M 1NH23MC026 // Writing to file try (FileOutputStream fileOut = new FileOutputStream(fileName)) { workbook.write(fileOut); System.out.println("Excel file written successfully."); } catch (IOException e) { e.printStackTrace(); } } } b. ReadExcelFile.java 1. Create another Java class ReadExcelFile.java in the excel package. 2. Write code to read from an Excel file: java package com.tripillar.filehandling.excel; import org.apache.poi.ss.usermodel.*; import org.apache.poi.xssf.usermodel.XSSFWorkbook; import java.io.FileInputStream; import java.io.IOException; public class ReadExcelFile { public static void main(String[] args) { String fileName = "example.xlsx"; try (FileInputStream fis = new FileInputStream(fileName); Workbook workbook = new XSSFWorkbook(fis)) { Sheet sheet = workbook.getSheetAt(0);

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```
for (Row row : sheet) {
         for (Cell cell: row) {
           switch (cell.getCellType()) {
             case STRING:
                System.out.print(cell.getStringCellValue() + "\t");
                break;
             case NUMERIC:
                System.out.print(cell.getNumericCellValue() + "\t");
                break;
           }
         }
         System.out.println();
      }
    } catch (IOException e) {
      e.printStackTrace();
    }
  }
}
```

Step 6: Running the Project

- 1. Right-click on each file and choose Run.
- 2. Ensure that both the text file and Excel file operations work as expected.

Step 7: GitHub Submission

1. Initialize Git in your project directory:

```
git init
git add .
git commit -m "Initial commit - File Handling Project"
```

- 2. Create a new repository on GitHub.
- 3. Push your project to GitHub:

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git remote add origin <your-repo-url></your-repo-url>	
git push -u origin main	
Challenges faced :	
 faced a problem while adding the dependencies so I resolved it. While coding and giving naming conventions we faced some problem then we resolved 	it.
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