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Batch Code: ANP-C6315

Lab Assignment – 17
FileHandling

Question 1:   Create a document file in the system with some data. Read the data and display it on the console.

Input:

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.BufferedReader;

import java.io.IOException;

public class FileReadWriteExample {

   public static void main(String[] args) {

      // Specify the file path

      String filePath = "example.txt";

      // Write data to the file

      writeToFile(filePath, "Hello, this is some data written to the file!");

```java
        // Read data from the file and display it on the console

        String data = readFromFile(filePath);

        System.out.println("Data read from the file:\n" + data);

    }


    // Method to write data to a file

    private static void writeToFile(String filePath, String data) {

        try (BufferedWriter writer = new BufferedWriter(new
FileWriter(filePath))) {

            // Write the data to the file

            writer.write(data);

            System.out.println("Data written to the file successfully.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }


    // Method to read data from a file

    private static String readFromFile(String filePath) {

        StringBuilder content = new StringBuilder();

        try (BufferedReader reader = new BufferedReader(new
FileReader(filePath))) {

            String line;
```

```
        // Read each line from the file

        while ((line = reader.readLine()) != null) {

            content.append(line).append("\n");

        }

    } catch (IOException e) {

        e.printStackTrace();

    }

    return content.toString();

  }

}
```

Output:

Data written to the file successfully.

Data read from the file:

Hello, this is some data written to the file!

Question 2: Create a text file in the system. Write data to file through the console.

Input:

import java.io.BufferedWriter;

import java.io.FileWriter;

import java.io.IOException;

import java.util.Scanner;

```java
public class ConsoleInputToFile {

    public static void main(String[] args) {
        // Specify the file path
        String filePath = "userInput.txt";

        // Get data from the console
        String inputData = getInputFromConsole();

        // Write data to the file
        writeToFile(filePath, inputData);

        System.out.println("Data has been written to the file successfully.");
    }

    // Method to get input from the console
    private static String getInputFromConsole() {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter data to write to the file (press Enter when done):");

        // Read input until the user presses Enter
```

```java
        StringBuilder input = new StringBuilder();

        String line;

        while (!(line = scanner.nextLine()).isEmpty()) {

            input.append(line).append("\n");

        }

        return input.toString();

    }

    // Method to write data to a file

    private static void writeToFile(String filePath, String data) {

        try (BufferedWriter writer = new BufferedWriter(new
FileWriter(filePath))) {

            // Write the data to the file

            writer.write(data);

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}
```

Output:

Enter data to write to the file (press Enter when done):

This is some data entered through the console.

Press Enter again to finish.

Data has been written to the file successsfully.