Program7: File mechanisms

```java
import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileWriter;

import java.io.IOException;

import java.util.Scanner;


public class FileEx {


    public static void main(String[] args) {


    // Get the file name from user input

    Scanner scanner = new Scanner(System.in);

    System.out.print("Enter file name: ");

    String fileName = scanner.nextLine();


    // Perform file operations

    createFile(fileName);

    writeFile(fileName);

    readFile(fileName);

    updateFile(fileName);
```

```java
        deleteFile(fileName);


        // Close scanner

        scanner.close();

    }
            // Method to create a new file

    public static void createFile(String fileName) {

        File file = new File(fileName);

        try {

            if (file.createNewFile()) {

                System.out.println("File created: " + file.getName());

            } else {

                System.out.println("File already exists.");

            }

        } catch (IOException e) {

            System.out.println("An error occurred.");

            e.printStackTrace();

        }

    }

// Method to write to a file

    public static void writeFile(String fileName) {

        try {
```

```java
            FileWriter writer = new FileWriter(fileName);

            writer.write("you are my queen");

            writer.close();

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

        } catch (IOException e) {

            System.out.println("An error occurred.");

            e.printStackTrace();

        }

    }

// Method to read from a file

    public static void readFile(String fileName) {

        try {

            File file = new File(fileName);

            Scanner scanner = new Scanner(file);

            while (scanner.hasNextLine()) {

                String data = scanner.nextLine();

                System.out.println("File content: " + data);

            }

            scanner.close();

        } catch (FileNotFoundException e) {

            System.out.println("An error occurred.");

            e.printStackTrace();
```

```java
        }

    }

    // Method to update a file

    public static void updateFile(String fileName) {

        try {

            FileWriter writer = new FileWriter(fileName, true);

            writer.write("\nUpdated data.");

            writer.close();

            System.out.println("File updated.");

        } catch (IOException e) {

            System.out.println("An error occurred.");

            e.printStackTrace();

        }

    }


    // Method to delete a file

    public static void deleteFile(String fileName) {

        File file = new File(fileName);

        if (file.delete()) {

            System.out.println("File deleted: " + file.getName());

        } else {

            System.out.println("An error occurred.");
```

```
        }

    }

}
```