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package javapract;
import java.io.*;

public class P1S2P1 {
    public static void main(String[] args) {
        BufferedReader reader = new BufferedReader(new
InputStreamReader(System.in));
        String fileName;

        try {
            System.out.print("Enter file name: ");
            fileName = reader.readLine();

            while (true) {
                System.out.println("\nChoose an option:");
                System.out.println("1. Create file");
                System.out.println("2. Read from file");
                System.out.println("3. Write to file");
                System.out.println("4. Append to file");
                System.out.println("5. Update data in file");
                System.out.println("6. Delete file");
                System.out.println("7. Exit");
                System.out.print("Enter your choice: ");
                int choice = Integer.parseInt(reader.readLine());

                switch (choice) {
                    case 1:
                        createFile(fileName);
                        break;
                    case 2:
                        readFromFile(fileName);
                        break;
                    case 3:
                        writeToFile(fileName, reader);
                        break;
                    case 4:
                        appendToFile(fileName, reader);
                        break;
                    case 5:
                        updateFile(fileName, reader);
                        break;
                    case 6:
                        deleteFile(fileName);
                        break;
                    case 7:
                        System.out.println("Exiting program.");
                        return;
                    default:
                        System.out.println("Invalid choice. Please try again.");
                }
            }
        } catch (IOException | NumberFormatException e) {
            System.out.println("An error occurred: " + e.getMessage());
        }
    }

    public static void createFile(String fileName) {
        try {
            File file = new File(fileName);

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        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 while creating the file.");
        e.printStackTrace();
    }
}

public static void readFromFile(String fileName) {
    try {
        BufferedReader reader = new BufferedReader(new FileReader(fileName));
        String line;
        System.out.println("File content:");
        while ((line = reader.readLine()) != null) {
            System.out.println(line);
        }
        reader.close();
    } catch (IOException e) {
        System.out.println("An error occurred while reading the file.");
        e.printStackTrace();
    }
}

public static void writeToFile(String fileName, BufferedReader reader) {
    try {
        FileWriter writer = new FileWriter(fileName);
        System.out.print("Enter content to write: ");
        String content = reader.readLine();
        writer.write(content);
        writer.close();
        System.out.println("Content written to the file.");
    } catch (IOException e) {
        System.out.println("An error occurred while writing to the file.");
        e.printStackTrace();
    }
}

public static void appendToFile(String fileName, BufferedReader reader) {
    try {
        FileWriter writer = new FileWriter(fileName, true);
        System.out.print("Enter content to append: ");
        String content = reader.readLine();
        writer.write(content);
        writer.close();
        System.out.println("Content appended to the file.");
    } catch (IOException e) {
        System.out.println("An error occurred while appending to the file.");
        e.printStackTrace();
    }
}

public static void updateFile(String fileName, BufferedReader reader) {
    try {
        BufferedReader fileReader = new BufferedReader(new
FileReader(fileName));
        StringBuilder content = new StringBuilder();

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        String line;
        while ((line = fileReader.readLine()) != null) {
            content.append(line).append("\n");
        }
        fileReader.close();

        System.out.print("Enter updated content: ");
        String updatedContent = reader.readLine();

        FileWriter writer = new FileWriter(fileName);
        writer.write(updatedContent);
        writer.close();
        System.out.println("File content updated successfully.");
    } catch (IOException e) {
        System.out.println("An error occurred while updating the file.");
        e.printStackTrace();
    }
}

public static void deleteFile(String fileName) {
    File file = new File(fileName);
    if (file.delete()) {
        System.out.println("File deleted successfully.");
    } else {
        System.out.println("Failed to delete the file.");
    }
}
}

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