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DSA LAB MID

CS231237

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Q1)
   import java.io.*;
import java.util.Scanner;
public class SimpleNotepad {
 private static StringBuilder text = new StringBuilder();
 public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    boolean isRunning = true;
    System.out.println("Welcome to Simple Notepad!");
    System.out.println("Available Commands:");
    System.out.println("- Type text to add it to the notepad.");
    System.out.println("- Type 'SAVE' to save your work.");
    System.out.println("- Type 'LOAD' to retrieve saved content.");
    System.out.println("- Type 'EXIT' to quit the program.");
    while (isRunning) {
     System.out.print("\nEnter text or command: ");
     String input = scanner.nextLine();
      if (input.equalsIgnoreCase("SAVE")) {
       saveToFile();
     } else if (input.equalsIgnoreCase("LOAD")) {
       loadFromFile();
     } else if (input.equalsIgnoreCase("EXIT")) {
       isRunning = false; // End the loop
```

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System.out.println("Exiting... Thank you for using Simple Notepad!");
   } else {
     text.append(input).append("\n"); // Add the user's text to the notepad
     System.out.println("Text added.");
   }
 }
  scanner.close();
}
private static void saveToFile() {
 try (FileWriter writer = new FileWriter("notepad.txt")) {
   writer.write(text.toString());
   System.out.println("Your notepad has been saved to 'notepad.txt'.");
 } catch (IOException e) {
   System.out.println("Error while saving: " + e.getMessage());
 }
}
private static void loadFromFile() {
 try (BufferedReader reader = new BufferedReader(new FileReader("notepad.txt"))) {
   text.setLength(0);
    String line;
   while ((line = reader.readLine()) != null) {
     text.append(line).append("\n");
   }
    System.out.println("Content loaded successfully:");
    System.out.println(text);
  } catch (FileNotFoundException e) {
    System.out.println("No file found to load. Please save your work first.");
```

```
} catch (IOException e) {
    System.out.println("Error while loading: " + e.getMessage());
}
}
```