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import java.io.*; import
java.util.*;
/**
* Simple To-Do List Application
* ----- * Features:
* - Add new tasks
* - View all tasks
* - Mark tasks as complete
* - Delete tasks
* - Save/Load tasks from a text file
*/
public class ToDoListApp {
 private static final String FILE_NAME = "tasks.txt";
private static Scanner sc = new Scanner(System.in);
private static ArrayList<Task> tasks = new ArrayList<>();
 public static void main(String[] args) {
loadTasks();
                int choice;
                              do {
     System.out.println("\n===== TO-DO LIST MENU ======");
     System.out.println("1. Add Task");
     System.out.println("2. View Tasks");
     System.out.println("3. Mark Task as Done");
     System.out.println("4. Delete Task");
     System.out.println("5. Save Tasks");
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System.out.println("6. Exit");
     System.out.print("Enter your choice: ");
choice = getInt();
     switch (choice) {
case 1: addTask(); break;
case 2: viewTasks(); break;
case 3: markDone(); break;
case 4: deleteTask(); break;
case 5: saveTasks(); break;
case 6:
         saveBeforeExit();
         System.out.println("Exiting program. Goodbye!");
break;
       default: System.out.println("Invalid choice. Try again.");
     }
   } while (choice != 6);
 }
 // ----- Functions -----
private static void addTask() {
   System.out.print("Enter task title: ");
   String title = sc.nextLine().trim();
   System.out.print("Enter description (optional): ");
   String desc = sc.nextLine().trim();
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Task t = new Task(title, desc);
tasks.add(t);
    System.out.println("Task added successfully!");
 }
  private static void viewTasks() {
if (tasks.isEmpty()) {
      System.out.println("No tasks yet!");
     return;
   }
   System.out.println("\n--- TASK LIST ---");
for (int i = 0; i < tasks.size(); i++) {
      Task t = tasks.get(i);
     String status = t.isDone ? "[✓]" : "[]";
     System.out.println((i + 1) + "." + status + "" + t.title);
if (!t.description.isEmpty())
       System.out.println(" → " + t.description);
   }
  }
  private static void markDone() {
viewTasks();
                 if
(tasks.isEmpty()) return;
System.out.print("Enter task
number to mark as done: ");
int num = getInt();
                       if (num < 1
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|| num > tasks.size()) {
System.out.println("Invalid task
number!");
                 return;
   }
   tasks.get(num - 1).isDone = true;
   System.out.println("Task marked as done!");
 }
 private static void deleteTask() {
viewTasks();
                 if
(tasks.isEmpty()) return;
   System.out.print("Enter task number to delete: ");
int num = getInt();
                      if (num < 1 || num > tasks.size())
       System.out.println("Invalid task number!");
return;
   }
   tasks.remove(num - 1);
   System.out.println("Task deleted.");
 }
 private static void saveTasks() {
   try (PrintWriter pw = new PrintWriter(new FileWriter(FILE_NAME))) {
for (Task t : tasks)
       pw.println(t.title + "|" + t.description + "|" + t.isDone);
     System.out.println("Tasks saved to " + FILE_NAME);
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} catch (IOException e) {
     System.out.println("Error saving: " + e.getMessage());
   }
 }
  private static void loadTasks() {
File file = new File(FILE_NAME);
if (!file.exists()) return;
    try (Scanner f = new Scanner(file)) {
while (f.hasNextLine()) {
        String[] p = f.nextLine().split("\\|");
if (p.length >= 3)
         tasks.add(new Task(p[0], p[1], Boolean.parseBoolean(p[2])));
     }
     System.out.println("Loaded " + tasks.size() + " tasks.");
    } catch (IOException e) {
      System.out.println("Error loading file: " + e.getMessage());
   }
  }
  private static void saveBeforeExit() {
    System.out.print("Save tasks before exit? (y/n): ");
String ans = sc.nextLine().toLowerCase();
                                               if
(ans.equals("y")) saveTasks();
 }
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private static int getInt() {
    try {
      return Integer.parseInt(sc.nextLine());
    } catch (Exception e) {
return -1;
    }
  }
  // ----- Task Class -----
static class Task {
    String title;
    String description;
boolean isDone;
    Task(String title, String desc) {
this.title = title;
this.description = desc;
this.isDone = false;
    }
    Task(String title, String desc, boolean done) {
                                                         this.title = title;
this.description = desc; this.isDone = done;
    }
  }
}
```