import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

class Task {

private String title;

private String description;

private String dueDate;

private String category;

private boolean completed;

public Task(String title, String description, String dueDate, String category) {

this.title = title;

this.description = description;

this.dueDate = dueDate;

this.category = category;

this.completed = false;

}

public String getTitle() {

return title;

}

public String getDescription() {

return description;

}

public String getDueDate() {

return dueDate;

}

public String getCategory() {

return category;

}

public boolean isCompleted() {

return completed;

}

public void setCompleted(boolean completed) {

this.completed = completed;

}

}

class TaskManager {

private List<Task> tasks;

public TaskManager() {

this.tasks = new ArrayList<>();

}

public void addTask(Task task) {

tasks.add(task);

}

public void markTaskAsCompleted(int index) {

tasks.get(index).setCompleted(true);

}

public void removeTask(int index) {

tasks.remove(index);

}

public List<Task> getTasks() {

return tasks;

}

}

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

TaskManager taskManager = new TaskManager();

while (true) {

System.out.println("1. Add Task");

System.out.println("2. Mark Task as Completed");

System.out.println("3. Remove Task");

System.out.println("4. View All Tasks");

System.out.println("5. Exit");

System.out.print("Choose an option: ");

int choice = scanner.nextInt();

switch (choice) {

case 1:

System.out.print("Enter title: ");

scanner.nextLine(); // Consume newline

String title = scanner.nextLine();

System.out.print("Enter description: ");

String description = scanner.nextLine();

System.out.print("Enter due date: ");

String dueDate = scanner.nextLine();

System.out.print("Enter category: ");

String category = scanner.nextLine();

Task task = new Task(title, description, dueDate, category);

taskManager.addTask(task);

break;

case 2:

System.out.print("Enter task index to mark as completed: ");

int index = scanner.nextInt();

taskManager.markTaskAsCompleted(index);

break;

case 3:

System.out.print("Enter task index to remove: ");

int removeIndex = scanner.nextInt();

taskManager.removeTask(removeIndex);

break;

case 4:

List<Task> tasks = taskManager.getTasks();

for (int i = 0; i < tasks.size(); i++) {

Task t = tasks.get(i);

System.out.println("Task " + (i + 1) + ": " + t.getTitle() +

" (" + (t.isCompleted() ? "Completed" : "Pending") + ")");

}

break;

case 5:

System.out.println("Exiting...");

System.exit(0);

break;

default:

System.out.println("Invalid option, please try again.");

}

}

}

}