import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class TaskManager {

private List<String> tasks;

private Scanner scanner;

public TaskManager() {

tasks = new ArrayList<>();

scanner = new Scanner(System.in);

}

public void displayMenu() {

System.out.println("Task Manager");

System.out.println("1. Add a task");

System.out.println("2. Remove a task");

System.out.println("3. List all tasks");

System.out.println("4. Exit");

}

public void addTask() {

System.out.print("Enter the task: ");

String task = scanner.nextLine();

tasks.add(task);

System.out.println("Task added successfully.");

}

public void removeTask() {

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

int taskNumber = scanner.nextInt();

scanner.nextLine(); // Consume the newline

if (taskNumber > 0 && taskNumber <= tasks.size()) {

tasks.remove(taskNumber - 1);

System.out.println("Task removed successfully.");

} else {

System.out.println("Invalid task number.");

}

}

public void listTasks() {

if (tasks.isEmpty()) {

System.out.println("No tasks available.");

} else {

System.out.println("Tasks:");

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

System.out.println((i + 1) + ". " + tasks.get(i));

}

}

}

public void run() {

int choice;

do {

displayMenu();

System.out.print("Enter your choice: ");

choice = scanner.nextInt();

scanner.nextLine(); // Consume the newline

switch (choice) {

case 1:

addTask();

break;

case 2:

removeTask();

break;

case 3:

listTasks();

break;

case 4:

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

break;

default:

System.out.println("Invalid choice. Please try again.");

}

System.out.println();

} while (choice != 4);

}

public static void main(String[] args) {

TaskManager taskManager = new TaskManager();

taskManager.run();

}

}