import java.util.ArrayList;

import java.util.Scanner;

public class ToDoList {

static Scanner scanner = new Scanner(System.in);

static ArrayList<String> tasks = new ArrayList<>();

public static void main(String[] args) {

int choice;

do {

System.out.println("\nTo-Do List Application");

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

System.out.println("2. Delete Task");

System.out.println("3. Display Tasks");

System.out.println("4. Mark Task Complete");

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

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

choice = scanner.nextInt();

switch (choice) {

case 1:

addTask();

break;

case 2:

deleteTask();

break;

case 3:

displayTasks();

break;

case 4:

markTaskComplete();

break;

case 5:

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

break;

default:

System.out.println("Invalid choice!");

}

} while (choice != 5);

}

public static void addTask() {

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

String task = scanner.nextLine();

scanner.nextLine(); // Consume extra newline character

tasks.add(task);

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

}

public static void deleteTask() {

if (tasks.isEmpty()) {

System.out.println("No tasks to delete!");

return;

}

displayTasks();

System.out.print("Enter task number to delete (1-" + tasks.size() + "): ");

int taskIndex = scanner.nextInt() - 1;

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

tasks.remove(taskIndex);

System.out.println("Task deleted successfully!");

} else {

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

}

}

public static void displayTasks() {

if (tasks.isEmpty()) {

System.out.println("No tasks to display!");

return;

}

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

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

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

}

}

public static void markTaskComplete() {

if (tasks.isEmpty()) {

System.out.println("No tasks to mark complete!");

return;

}

displayTasks();

System.out.print("Enter task number to mark complete (1-" + tasks.size() + "): ");

int taskIndex = scanner.nextInt() - 1;

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

tasks.set(taskIndex, "[COMPLETED] " + tasks.get(taskIndex));

System.out.println("Task marked complete successfully!");

} else {

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

}

}

}