public class Task {

private String name;

private boolean isCompleted;

public Task(String name) {

this.name = name;

this.isCompleted = false;

}

public String getName() {

return name;

}

public boolean isCompleted() {

return isCompleted;

}

public void markAsCompleted() {

this.isCompleted = true;

}

@Override

public String toString() {

return name + (isCompleted ? " [Completed]" : " [Pending]");

}

}

import java.util.ArrayList;

import java.util.Scanner;

public class Main {

private static ArrayList<Task> tasks = new ArrayList<>();

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

public static void main(String[] args) {

boolean running = true;

while (running) {

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

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

System.out.println("2. View tasks");

System.out.println("3. Mark task as completed");

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

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

int option = scanner.nextInt();

scanner.nextLine(); // Consume newline

switch (option) {

case 1:

addTask();

break;

case 2:

viewTasks();

break;

case 3:

markTaskAsCompleted();

break;

case 4:

running = false;

System.out.println("Goodbye!");

break;

default:

System.out.println("Invalid option. Try again.");

}

}

}

private static void addTask() {

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

String name = scanner.nextLine();

tasks.add(new Task(name));

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

}

private static void viewTasks() {

if (tasks.isEmpty()) {

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

} else {

System.out.println("Your tasks:");

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

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

}

}

}

private static void markTaskAsCompleted() {

viewTasks();

if (!tasks.isEmpty()) {

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

int taskNumber = scanner.nextInt();

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

tasks.get(taskNumber - 1).markAsCompleted();

System.out.println("Task marked as completed!");

} else {

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

}

}

}

}