Task Manager CRUD

Instructions

Task Manager CRUD App
Note - Use SRP, DRY, Packages...

View
        Menu -
        1. Enter New Task
        2. Read All Task
        3. Update Task
        4. Delete Task

Enter your choice : 1
Enter Task Name :
Enter Task Desc :
// create object of task class and add in arraylist

Enter your choice : 2
Show all task from arraylist

Enter your choice : 3
Enter task name :
// update object in arraylist

Enter your choice : 4
Enter task name :
// delete task from arraylist

```java
class Task {

    String name, desc;

    Task() {

    }

    Task(String name, String desc){
        this.name = name;
        this.desc = desc;
    }

}
```

```java
class input {

    ArrayList<Task> list = new ArrayList<>();

    public void createTask(ArrayList<Task> arr, Scanner sc) {
        System.out.print("Enter Name :- ");
        String name = sc.nextLine();
        System.out.print("Enter Description :- ");
        String desc = sc.nextLine();
        Task task = new Task(name, desc);
        arr.add(task);
    }

    public void readAllTask(ArrayList<Task> arr) {
        System.out.println("Name\t\tDesciption");
        for (Task task : arr) {
            System.out.println(task.name + "\t\t" + task.desc);
        }
    }

    public void updateTask(ArrayList<Task> arr, Scanner sc) {
        System.out.println("Enter Task Name :- ");
        String name = sc.nextLine();
        Task x = null;
        for (Task task : arr) {
            if (task.name.equals(name)) {
                x = task;
                break;
            }
        }
        if (x == null)
            System.out.println("Task not found !");
        else {
            System.out.println("Enter updated Description :- ");
            String desc = sc.nextLine();
            x.desc = desc;
            System.out.println("Task Updated Successfully");
        }
    }

    public void deleteTask(ArrayList<Task> arr, Scanner sc) {
        System.out.println("Enter Task Name to be deleted :- ");
        String name = sc.nextLine();
        boolean flag = true;
        for (int i = 0; i < arr.size(); i++) {
```

```java
            Task x = arr.get(i);
            if (x.name.equals(name)) {
                arr.remove(i);
                flag = false;
                break;
            }
        }
        if (flag == true)
            System.out.println("Task not found !");
        else
            System.out.println("Task Deleted Successfully");
    }
}

import java.util.*;
public class Main {
    public static void main(String[] args) {
        ArrayList<Task> list = new ArrayList<Task>();
        Scanner sc = new Scanner(System.in);
        System.out.println("NAME : VAIBHAV BANESHI");
        System.out.println("SAP_ID : 1000014170");
        System.out.println("Welcome to Task Manager (CRUD)");
        while (true) {
            input obj = new input();
            System.out.println("Menu");
            System.out.println("1. Enter New Task\t4. Delete Task");
            System.out.println("2. Read All Task\t5. Exit");
            System.out.println("3. Update Task");
            int n = sc.nextInt();
            sc.nextLine();
            if (n == 1)
                obj.createTask(list, sc);
            else if (n == 2)
                obj.readAllTask(list);
            else if (n == 3)
                obj.updateTask(list, sc);
            else if (n == 4)
                obj.deleteTask(list, sc);
            else if(n == 5)
                break;
            System.out.println();
        }
        sc.close();
    }
}
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL                                          Run: Main  + ∨  ⬚  🗑  …  ∧  ✕

NAME : VAIBHAV BANESHI
SAP_ID : 1000014170
Welcome to Task Manager (CRUD)
Menu
1. Enter New Task        4. Delete Task
2. Read All Task         5. Exit
3. Update Task
1
Enter Name :- vaibhav baneshi
Enter Description :- study

Menu
1. Enter New Task        4. Delete Task
2. Read All Task         5. Exit
3. Update Task
2
Name            Desciption
vaibhav baneshi         study

Menu
1. Enter New Task        4. Delete Task
2. Read All Task         5. Exit
3. Update Task
3
Enter Task Name :-
vaibhav baneshi
Enter updated Description :-
code
Task Updated Successfully

Menu
1. Enter New Task        4. Delete Task
2. Read All Task         5. Exit
3. Update Task
5
PS C:\Users\HP\OneDrive\Desktop\techTraining> ▯
```