

## BASIC LEVEL PROJECT

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Project Title: Daily Habit Tracker (Console Application)

Description:

- Collect daily habits from user input
- Store habits in a list
- Display completed and pending tasks
- Calculate weekly habit score

## JAVA PROGRAM:

```
package program;

import java.util.ArrayList;

import java.util.Scanner;

class Habit {

    String name;

    boolean completed;

    Habit(String name) {

        this.name = name;

        this.completed = false;

    }

}

public class DailyHabitTracker {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        ArrayList<Habit> habits = new ArrayList<>();

        System.out.println("=== Daily Habit Tracker ===");

        System.out.print("Enter number of habits for today: ");

        int n = sc.nextInt();

        sc.nextLine();

        for (int i = 1; i <= n; i++) {

            System.out.print("Enter habit " + i + ": ");

            String habitName = sc.nextLine();
```

```

        habits.add(new Habit(habitName));
    }

    for (Habit h : habits) {

        System.out.print("Did you complete \"" + h.name + "\" today? (yes/no): ");

        String status = sc.nextLine();

        if (status.equalsIgnoreCase("yes")) {

            h.completed = true;

        }

    }

    System.out.println("\nCompleted Habits:");

    int completedCount = 0;

    for (Habit h : habits) {

        if (h.completed) {

            System.out.println("- " + h.name);

            completedCount++;

        }

    }

    System.out.println("\nPending Habits:");

    for (Habit h : habits) {

        if (!h.completed) {

            System.out.println("- " + h.name);

        }

    }

```

```
int totalHabits = habits.size();
```

```
int weeklyScore = (completedCount * 100) / totalHabits;
```

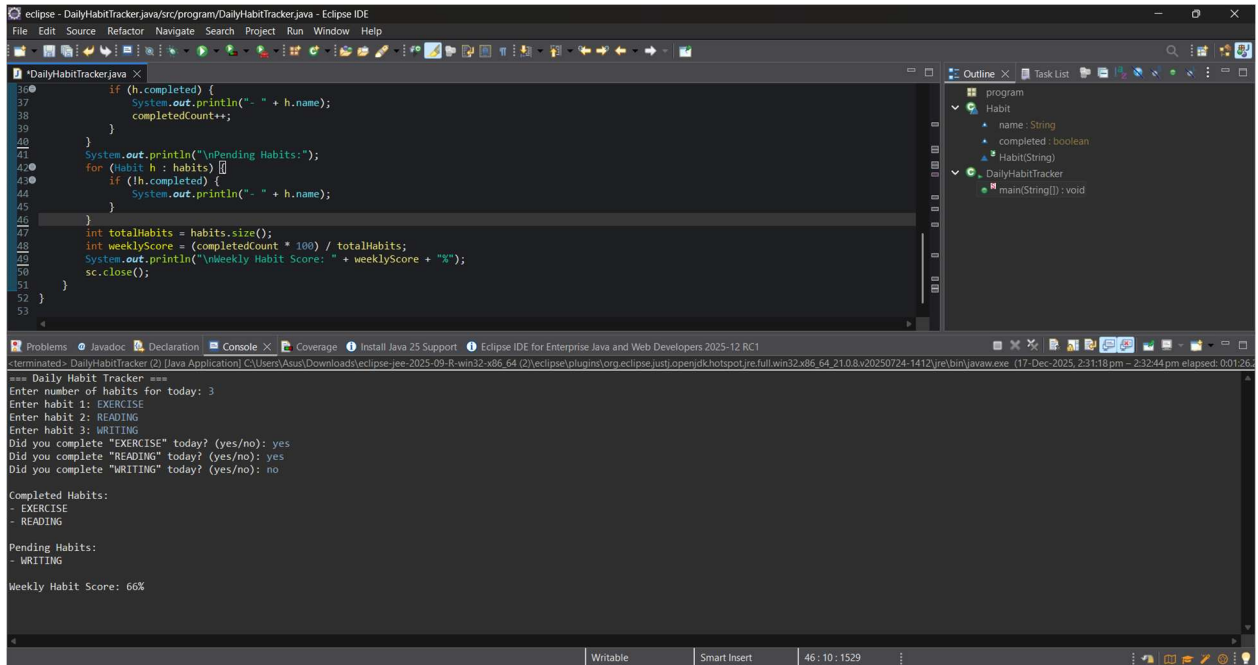
```
System.out.println("\nWeekly Habit Score: " + weeklyScore + "%");
```

```
sc.close();
```

```
}
```

```
}
```

## OUTPUT:



The screenshot shows the Eclipse IDE with the file `DailyHabitTracker.java` open. The code in the editor is as follows:

```
36     if (h.completed) {
37         System.out.println("- " + h.name);
38         completedCount++;
39     }
40 }
41 System.out.println("\nPending Habits:");
42 for (Habit h : habits) {
43     if (h.completed) {
44         System.out.println("- " + h.name);
45     }
46 }
47 int totalHabits = habits.size();
48 int weeklyScore = (completedCount * 100) / totalHabits;
49 System.out.println("\nWeekly Habit Score: " + weeklyScore + "%");
50 sc.close();
51 }
52 }
53 }
```

The right-hand side of the IDE shows the Outline view with the following structure:

- program
  - Habit
    - name : String
    - completed : boolean
  - Habit(String)
  - DailyHabitTracker
    - main(String[]) : void

The bottom console window shows the output of the program:

```
*** Daily Habit Tracker ***
Enter number of habits for today: 3
Enter habit 1: EXERCISE
Enter habit 2: READING
Enter habit 3: WRITING
Did you complete "EXERCISE" today? (yes/no): yes
Did you complete "READING" today? (yes/no): yes
Did you complete "WRITING" today? (yes/no): no

Completed Habits:
- EXERCISE
- READING

Pending Habits:
- WRITING

Weekly Habit Score: 66%
```