

BASIC LEVEL PROJECT

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 interface with the following details:

- Code Editor:** Displays the `DailyHabitTracker.java` file containing the provided Java code.
- Outline View:** Shows the class structure with `Habit` and `DailyHabitTracker`.
- Console Output:**
 - Shows the program's execution flow.
 - Output text:
 - *** 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%