

# **MIGAL IT SOLUTIONS**

## **JAVA DEVELOPMENT INTERNSHIP**

**NAME: KAVYA.P**

**DEPARTMENT: B.TECH IT**

**COMPANY: MIGAL IT SOLUTIONS**

### **1. BASIC LEVEL PROJECT**

**PROJECT TITLE: DAILY HABIT TRACKER(CONSOLE APPLICATION)**

#### **DESCRIPTION:**

The Daily Habit Tracker is a console-based Java application that helps user strack their daily habits. It allows users to enter habits, mark them as completed or pending, and calculates a weekly habit score.

#### **JAVA PROGRAM:**

```
import java.util.Scanner;

public class SimpleHabitTracker {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int completed = 0;

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

        int total = sc.nextInt();

        for (int i = 1; i <= total; i++) {
```

```

        System.out.print("Is habit " + i + " completed? (1-Yes / 0-No):
");
        Int status = sc.nextInt();
        if (status == 1) {
            completed++;
        }
    }
    System.out.println("\nCompleted Habits: " + completed);
    System.out.println("Pending Habits: " + (total - completed));
    int score = (completed * 100) / total;
    System.out.println("Weekly Habit Score: " + score + "%");
    sc.close();
}
}

```

## **OUTPUT/SCREENSHORTS:**

The screenshot shows a Java code editor with a file named `SimpleHabitTracker.java`. The code is as follows:

```

1- import java.util.Scanner;
2
3- public class SimpleHabitTracker {
4
5-     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         int completed = 0;
10
11         System.out.print("Enter total number of habits: ");
12         int total = sc.nextInt();
13
14         for (int i = 1; i <= total; i++) {
15
16             System.out.print("Is habit " + i + " completed? (1-Yes /
0-No): ");

```

The output window on the right shows the following results:

```

Enter total number of habits: 4
Is habit 1 completed? (1-Yes / 0-No): 1
Is habit 2 completed? (1-Yes / 0-No): 0
Is habit 3 completed? (1-Yes / 0-No): 1
Is habit 4 completed? (1-Yes / 0-No): 0

Completed Habits: 2
Pending Habits: 2
Weekly Habit Score: 50%

=== Code Execution Successful ===

```

## **2. MEDIUM LEVEL PROJECT**

**PROJECT TITLE:** Expense Splitter (Mini Split wise Console App)

**DESCRIPTION:**

The Expense Splitter is a console-based Java application that divides a total expense equally among people and shows how much each person has to pay.

**JAVA PROGRAM:**

```
import java.util.Scanner;

public class ExpenseSplitter {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number of people: ");

        int n = sc.nextInt();

        System.out.print("Enter total expense amount: ");

        double total Amount = sc.nextDouble();

        double split Amount = total Amount / n;

        System.out.println("\n---- PAYMENT SUMMARY ----");
```

```

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

            System.out.println("Person " + i + " should pay: ₹" +
splitAmount);

        }

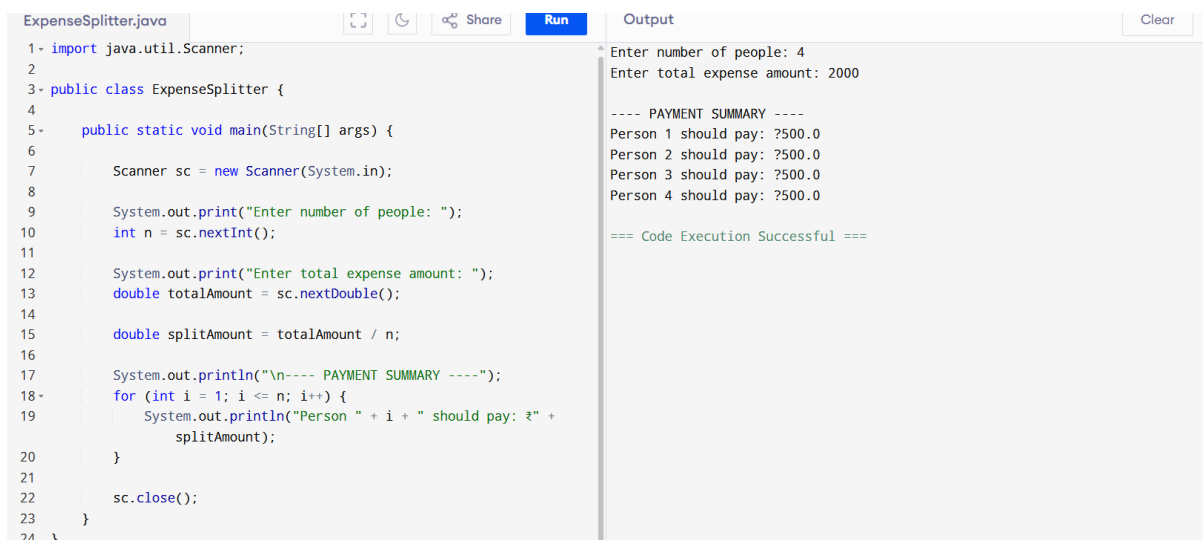
        sc.close();

    }

}

```

## **OUTPUT/SCREENSHORT:**



```

ExpenseSplitter.java
1- import java.util.Scanner;
2
3- public class ExpenseSplitter {
4
5-     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         System.out.print("Enter number of people: ");
10        int n = sc.nextInt();
11
12        System.out.print("Enter total expense amount: ");
13        double totalAmount = sc.nextDouble();
14
15        double splitAmount = totalAmount / n;
16
17        System.out.println("\n---- PAYMENT SUMMARY ----");
18        for (int i = 1; i <= n; i++) {
19            System.out.println("Person " + i + " should pay: ₹" +
splitAmount);
20        }
21
22        sc.close();
23    }
24 }

```

Output

```

Enter number of people: 4
Enter total expense amount: 2000

---- PAYMENT SUMMARY ----
Person 1 should pay: ₹500.0
Person 2 should pay: ₹500.0
Person 3 should pay: ₹500.0
Person 4 should pay: ₹500.0

=== Code Execution Successful ===

```

## **3. ADVANCED LEVEL PROJECT**

**PROJECT TITLE:** Smart Parking Lot System

**DESCRIPTION:**

Smart Parking Lot System is a console-based Java application that calculates parking charges and stores ticket details using file handling.

### **JAVA PROGRAM:**

```
import java.util.Scanner;

import java.io.FileWriter;

import java.io.IOException;

public class SmartParkingLot {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter vehicle number: ");

        String vehicleNo = sc.nextLine();

        System.out.print("Enter parking hours: ");

        int hours = sc.nextInt();

        int charge = hours * 50;

        System.out.println("\n--- PARKING TICKET ---");

        System.out.println("Vehicle Number: " + vehicleNo);

        System.out.println("Parking Hours: " + hours);
```

```
System.out.println("Total Charge: ₹" + charge);

// File handling

try {

    FileWriter fw = new FileWriter("parking_ticket.txt");

    fw.write("Vehicle Number: " + vehicleNo + "\n");

    fw.write("Parking Hours: " + hours + "\n");

    fw.write("Total Charge: ₹" + charge + "\n");

    fw.close();

} catch (IOException e) {

    System.out.println("File error");

}

sc.close();

}
```

**OUTPUT/SCREENSHOT:**

SmartParkingLot.java

Share

Run

Clear

```
1 import java.util.Scanner;
2 import java.io.FileWriter;
3 import java.io.IOException;
4
5 public class SmartParkingLot {
6
7     public static void main(String[] args) {
8
9         Scanner sc = new Scanner(System.in);
10
11         System.out.print("Enter vehicle number: ");
12         String vehicleNo = sc.nextLine();
13
14         System.out.print("Enter parking hours: ");
15         int hours = sc.nextInt();
16
17         int charge = hours * 50;
18
19         System.out.println("\n--- PARKING TICKET ---");
20         System.out.println("Vehicle Number: " + vehicleNo);
21         System.out.println("Parking Hours: " + hours);
22         System.out.println("Total Charge: ₹" + charge);
23
24         // File handling
```

Enter vehicle number: TN38CH6530  
Enter parking hours: 2  
  
--- PARKING TICKET ---  
Vehicle Number: TN38CH6530  
Parking Hours: 2  
Total Charge: ₹100  
File error  
  
=== Code Execution Successful ===