package assign3;

import java.util.\*;

public class Main {

public static void main(String[] args) {

int y = 1;

String day1, day2, day3;

double time1, time2, time3;

Scanner Sc = new Scanner(System.in);

double[] time = new double[]{6.04, 9.04, 12.04, 15.04, 19.04};

String[] day = new String[]{"Mon", "Tue", "Wed"};

int[][] passengers = new int[][]{{22, 119, 64, 177, 21}, {22, 111, 87, 193, 22}, {11, 107, 93, 162, 42}};

while (y != 0) {

System.out.println("\n Chennai To Tiruchchirapalli Service");

System.out.println("--------------------------------------");

System.out.println("Day |\tTime \t|\tNo. of Passengers");

System.out.println("--------------------------------------");

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

System.out.print(day[i] + "\t|\t" + time[j] + "\t|\t" + passengers[i][j] + "\n");

}

System.out.println("------------------------------------");

}

int t = 0, l = 0;

int max = 0;

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

if (passengers[i][j] > max) {

max = passengers[i][j];

t = i;

l = j;

}

}

}

System.out.println("\n\n\nThe maximum no. of passengers on day and time.");

System.out.println("----------------------------------------------------");

System.out.println("Day: " + day[t] + "\t Time: " + time[l] + "\t Max no. of passengers: " + max+"\n\n");

int min = Integer.MAX\_VALUE;

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

if (passengers[i][j] < min) {

min = passengers[i][j];

t = i;

l = j;

}

}

}

System.out.println("The minimum no. of passengers on day and time.");

System.out.println("----------------------------------------------");

System.out.println("Day: " + day[t] + "\t Time: " + time[l] + "\t Min no. of passengers: " + min+"\n\n");

System.out.println("Comparing passengers of two trains");

System.out.println("----------------------------------");

int sum1 = 0;

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 1; j++)

sum1 = sum1 + passengers[i][j];

} System.out.println("Total number of passengers in 6.04 train: "+sum1);

int sum2 = 0;

for (int i = 0; i < 3; i++) {

for (int j = 1; j < 2; j++)

sum2 = sum2 + passengers[i][j];

}System.out.println("Total number of passengers in 9:04 train: "+sum2);

if (sum1 > sum2)

System.out.println("6:04 train is more famous\n \n");

else

System.out.println("9:04 train is more famous\n\n");

System.out.println("Comparing two trains, Monday (6.04) or Tuesday(6.04)");

System.out.println("----------------------------------------------------");

if (passengers[0][0] > passengers[1][0])

System.out.println("Monday is more famous \n\n");

else if (passengers[0][0] == passengers[1][0])

System.out.println("Same popularity\n\n");

else

System.out.println("Tuesday is more famous\n\n");

System.out.println("Days on which no. of passengers are <50:");

System.out.println("----------------------------------------");

System.out.println("Day |\tTime \t|\tNo. of Passengers");

System.out.println("----------------------------------------");

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++)

if (passengers[i][j] <= 50)

System.out.print(day[i] + "\t|\t" + time[j] + "\t|\t" + passengers[i][j] + "\n");

}

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

System.out.println("Avg no. of passengers on user given time and day:");

System.out.println("-------------------------------------------------");

System.out.print("Enter time: ");

time1 = Sc.nextDouble();

System.out.print("Enter day: ");

day1 = Sc.next();

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

if (time1 == time[j]) {

if ((day1.compareTo(day[i]) == 0))

System.out.println("Day: " + day[i] + "\t time: " + time[j] + " " + "\t passengers: " + passengers[i][j]+"\n\n");

}

}

}

int h = 0, g = 0;

System.out.println("Compare two trains:");

System.out.println("-------------------");

System.out.print("Enter time 1: ");

time2 = Sc.nextDouble();

System.out.print("Enter day 1: ");

day2 = Sc.next();

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

if (time2 == time[j]) {

if ((day2.compareTo(day[i]) == 0)) {

h = i;

g = j;

}

}

}

}

int a = 0, b = 0;

System.out.print("Enter time 2: ");

time3 = Sc.nextDouble();

System.out.print("Enter day 2: ");

day3 = Sc.next();

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 5; j++) {

if (time3 == time[j]) {

if ((day3.compareTo(day[i]) == 0)) {

a = i;

b = j;

}

}

}

}

if (passengers[h][g] > passengers[a][b])

System.out.println("Train 1 is popular \n\n");

else if (passengers[h][g] == passengers[a][b])

System.out.println("Same popularity \n\n");

else

System.out.println("Train 2 is popular \n\n");

System.out.println("Total no. of passengers to travel by train at 12.04 from Mon-Wed");

System.out.println("----------------------------------------------------------------");

int sum=0;

for (int i = 0; i < 3; i++) {

for (int j = 2; j < 3; j++)

sum = sum + passengers[i][j];

}

System.out.println("Total No.:"+sum);

System.out.println("\n\n\nDo you want to continue: 1.Yes = 1 \n\t\t\t\t\t\t 2.No = 0 ?");

y=Sc.nextInt();

}

}

}