package assign3;

import java.util.\*;

public class Main {

public static void main(String[] args) {

String[] day={"Monday ","Monday ","Monday ","Monday ","Monday ","Tueday ","Tueday ","Tueday ","Tueday ","Tueday ","Wednesday","Wednesday","Wednesday","Wednesday","Wednesday"};

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

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

Scanner Sc = new Scanner(System.in);

Int y=1;

While(y=1){

System.out.println(“1. Train details\n2. Most popular train\n3. Least popular train\n4.which is popular (6.04 or 9.04)\n5.which is popular(6.04 Monday or 6.04 Tuesday) \n6.

Which is popular (any two trains) \n7.Train details (passenger below 50)\n8.Average passengers on 12.04 over three days\n Enter no from 1-8: ”);

Int ch;

Ch=in.nextInt();

Switch(ch)

{

//a

case:1

{System.out.println("Day\t\tDepature time\tNumber of passengers");

for (int i=0;i<15;i++)

{

System.out.println(day[i]+"\t\t"+time[i]+"\t"+pas[i]);

}

}

case:2

{

//b

int max,ii;

max=0;

ii=0;

for (int i=0;i<15;i++)

{

if (max<pas[i])

{

max=pas[i];

ii=i;

}

}

System.out.println("Maximum is "+pas[ii]+" "+day[ii]+" "+time[ii]);

}

case: 3

{

//c

int min=Integer.MAX\_VALUE;

int ii;

ii=0;

for (int i=0;i<15;i++)

{

if (min>pas[i])

{

min=pas[i];

ii=i;

}

}

System.out.println("MINIMUM is "+pas[ii]+" "+day[ii]+" "+time[ii]);

break;

}

case : 4

{

//d

int ii,pop,i;

ii=0;

pop=0;

for (i=0;i<15;i++){

if(time[i]==6.04||time[i]==9.04)

{

if(pop<pas[i])

{

pop=pas[i];

ii=i;

}

}

}

System.out.println("Popular train is "+time[ii]);

break;

}

case : 5

{

//e

int ii,pop,i;

ii=0;

pop=0;

for (i=0;i<15;i++){

if(time[i]==6.04 && day[i].compareto("Monday")==0)

{

if(pop<pas[i])

{

pop=pas[i];

ii=i;

}

}

if(time[i]==6.04 && day[i].compareto("Tueday")==0)

{

if(pop==pas[i])

{

System.out.println("Both have the same amount of passengers");

}

if(pop<pas[i])

{

pop=pas[i];

ii=i;

}

}

}

System.out.println("Most Popular train is "+time[ii]+" "+day[ii]);

break;}

case:6

{ //f

int ii,pop,i;

ii=0;

pop=0;

System.out.println("Enter day and time: ");

day1=in.nextLine();

time1=in.nextInt();

System.out.println("Enter day and time: ");

day2=in.nextLine();

time2=in.nextInt();

for (int i = 0; i < 15; i++) {

if (time1 == time[i]) {

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

ii=i;

}

}

}

Int j;

for (int i = 0; i < 15; i++) {

if (time2 == time[i]) {

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

jj=i;

}

}

}

if (pas[ii]> pas[jj])

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

else if (passengers[ii] == passengers[jj])

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

else

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

break; }

case :7{

//f

System.out.println(“train details where passengers are below 50”);

System.out.println("Day\t\tDepature time\tNumber of passengers");

for (int i=0;i<15;i++)

{

If(pas[i]<50){

System.out.println(day[i]+"\t\t"+time[i]+"\t"+pas[i]);

}

}

break;

}

case : 8{

//g

System.out.println("Total no. of passengers to travel by train at 12.04”);

int sum=0;

for (int i = 0; i < 15; i++) {

if (time[i]==12.04){

sum = sum + pas[i];}}

int avg=sum/3;

System.out.println("Average no. Of passengers travelling: :"+sum);

}

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

y=Sc.nextInt();

}

}

}

}