/\* ASSIGNMENT 3

ROLL NO : 181114059

Processing given data \*/

package trains;

import java.util.\*;

public class Trains {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int case,highest ,b,lowest,c,h,l

String a=” ”,a1=” “;

int[] PassengerNum=new int[15];

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

String [] DepatureTimes=new String[15];

while (1){

String DepatureTimes[]={"Monday : 6.04","Monday : 9.04","Monday : 12.04","Monday : 15.04","Monday : 19.04",

"Tuesday : 6.04","Tuesday : 9.04","Tuesday : 12.04","Tuesday : 15.04","Tuesday : 19.04",

"Wednesday : 6.04","Wednesday : 9.04","Wednesday : 12.04","Wednesday :15.04","Wednesday : 19.04"};

System.out.println(" 1.Display data of train and passengers. \n 2.The most popular train. \n 3.The least popular train. \n 4.which is popular 6.04 or 9.04. \n 5.which is popular Monday : 6.04 or Tuesday : 6.04. \n 6.finding which two trains are popular. \n 7.finding train witrh passengers less than 50. \n 8.the Average Passenger number all days at 12.04.\n 9.fining the average using inputs. \n 10.Quit “)

System.out.println(“ What you want to find (Enter a number 1-10) ");

choice=x.nextInt();

highest=PassengerNum[0];

if(case==1)

{

System.out.println(“Depature time\t Passenger no”);

for(i=0;i<=14;i++)

{

System.out.println(“\t”+DepatureTimes[i]+" \t"+PassengerNum[i]+"\n");

}

Else if(case==2)

for(i=0;i<=14;i++)

{

if(PassengerNum[i]>=highest)

{

highest=PassengerNum[i];}}

b=DepatureTimes[i];

System.out.println("The popular train is “+b+” with “+highest+” passengers”);

Else if(case==3)

for(i=0;i<=14;i++)

{

if(PassengerNum[i]<=lowest)

{

lowest=PassengerNum[i];

c=DepatureTimes[i];

}

}

System.out.println(“The least popular train isC+c+”with”+lowest+”passengers”);

Else if(case==4)

int passenger1= PassengerNum[0]+ PassengerNum[10]+ PassengerNum[5];

int passenger2= PassengerNum[1]+ PassengerNum[6]+ PassengerNum[11];

if(passenger1>passenger2)

System.out.println(”Train 6.04 is popular than train 9.04”);

else

System.out.println(”Train 9.04 is popular than train 6.04”);

Else if(case==5)

if(PassengerNum[0]>PassengerNum[5])

System.out.println(”Train Monday : 6.04 is popular than train Tuesday : 6.04”);

else if(PassengerNum[5]>PassengerNum[0])

System.out.println(”Train Tuesday:6.04 is popular than train Monday:6.04”);

else

System.out.println(”Train Tuesday:6.04 and Monday:6.04 are equally popular”);

Else if(case==6)

System.out.println(“enter any depature time (day:time)”);

a=x.newInt();

System.out.println(“enter any depature time (day:time)”);

a1=x.newInt();

for(i=0;i<14,i++)

{

if (a.equals(DepatureTimes[i])

{ h=i;}

for(i=0;i<14,i++)

{

if (a1.equals(DepatureTimes[i])

{ l=i;}

If(PassengerNum[h]>PassengerNum[l])

System.out.println(a+”is popular”);

else

System.out.println(a1+”is popular”);

Else if(case==7)

System.out.println("List of train with passengers less than 50");

for(i=0;i<=14;i++)

{

if (PassengerNum[i]<50)

{

System.out.println(DepatureTimes[i]+" has "+PassengerNum[i]);

}

}

Else if(case==8)

System.out.println("The average number of passengers travelling Monday :12.04, Tuesday:12.04 , Wednesday : 12.04 is "+((PassengerNum[7]+PassengerNum[2]+PassengerNum[12])/3));

Else if(case==9)

System.out.println("Enter the day and time (in format Day : time)”);

a=inp.nextInt();

for(i=0;i<14,i++)

{

If (a.equals(Depaturetime[i])

{

System.out.println("The average number of passengers traveling in"+DepatureTimes[i]+" is "+(PassengerNum[i])/5);

Else if(case==10)

System.exit();

default :

System.out.println("Invalid case");

}

}

}

}