Name:kavitha

Rollno:15l125

Department:ece

JAVA PROGRAMMING

Mini Project 1:

To find the sum and average of visitors.

Source code:

```
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.io.*;
import java.io.FileNotFoundException;
import java.io.InputStreamReader;
public class Project{

   public static void main(String arg[])throws IOException,FileNotFoundException{

    BufferedReader brf=new BufferedReader(new FileReader("Visitor.txt"));
    BufferedReader crf=new BufferedReader(new InputStreamReader(System.in));
    int visitors[][][];
    visitors=new int[12][][];
    int days[]={31,29,31,30,31,30,31,31,30,31,30,31};
    for(int i=0;i<days.length;i++){
        visitors[i]=new int[days[i]][24];

        }
    for(int i=0;i<visitors.length;i++){
        for(int j=0;j<visitors[i].length;j++){
            for(int k=0;k<visitors[i][j].length;k++){
                    visitors[i][j][k]=Integer.valueOf(brf.readLine());
                        //System.out.print(visitors[i][j][k]+" ");
            }
                        // System.out.println("\n");
```

```
        }
                    //System.out.println("\n");
    }
    int con = 0;
    do{


        System.out.println("\n1.MonthAverage                    2.dateAverage
3.hourAverage " +
                        "\n4.boundary Condition for month    5.boundary condition
for month and date  6.condition for month,date,hour"+
                        "\n7.multiple boundaries for month   8.multiple
boundaries for month,date    9.mutilple boundaries for momth,date,hour"+
                        "\n10.To view the fetched values");
        System.out.println("\nENTER THE CHOICE");
        int ch=Integer.valueOf(crf.readLine());
        int sum=0;
        int sum2=0;
        int MonthBoundary1 = 0;
        int MonthBoundary2 = 0;
        int dateBoundary2 = 0;
        int dateBoundary1 = 0;
        int hourBoundary1 = 0;
        int hourBoundary2 = 0;
        int mainAverage = 0;
        int limit = 0;
        int totsum2=0;
        int n= 0;


        switch(ch){
                case 1:

                    System.out.println("ENTER THE MONTH");
                    int Month=Integer.valueOf(crf.readLine());
                    for(int j=0;j<visitors[Month].length;j++){
                        for(int k=0;k<visitors[Month][j].length;k++){
                                sum=sum+visitors[Month][j][k];
                        }
                    }
                    int average=sum/days[Month];
                    System.out.println("SUM OF MONTH     :"+sum);
                    System.out.println("AVERAGE OF MONTH :"+average);
                    System.out.println("\n");
```

```
                    break;
                case 2:
                    System.out.println("ENTER THE date");

                    int date=Integer.valueOf(crf.readLine());

                    for(int i=0;i<visitors.length;i++){
                        for(int k=0;k<visitors[i][date].length;k++){
                            sum2=sum2+visitors[i][date][k];
                        }
                    }

                    int averageDay=sum2/12;
                    System.out.println("SUM OF DAY     :"+sum2);
                    System.out.println("AVERAGE OF DAy :"+averageDay);
                    System.out.println("\n");

                    break;
                case 3:
                    System.out.println("ENTER THE HOUR");
                    int hour=Integer.valueOf(crf.readLine());
                    int sum3=0;

                    for(int i=0;i<visitors.length;i++){
                        for(int j=0;j<visitors[i].length;j++){

                                sum3=sum3+visitors[i][j][hour];
                        }
                    }

                    int averageHour=sum3/24;
                    System.out.println("SUM OF HOUR     :"+sum3);
                    System.out.println("AVERAGE OF HOUR :"+averageHour);
                    System.out.println("\n");
                    break;

                case 4:
                    System.out.println("\n");
                    System.out.println("ENTER THE MONTHBOUNDARY1");

                    MonthBoundary1=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE MONTHBOUNDARY2");
                    MonthBoundary2=Integer.valueOf(crf.readLine());

                    for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
```

```
                    for(int j=0;j<visitors[i].length;j++){
                        for(int k=0;k<visitors[i][j].length;k++){
                                sum=sum+visitors[i][j][k];
                        }
                    }
                }

                for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                        sum2=sum2+days[i];
                        limit+=1;
                }
                mainAverage=sum/(sum2/limit);
                System.out.println("SUM OF MONth:"+sum);
                System.out.println("AVERAGE     :"+mainAverage);
                System.out.println("\n");
                break;

                case 5:
                System.out.println("\n");
                System.out.println("ENTER THE MONTHBOUNDARY1");

                MonthBoundary1=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE MONTHBOUNDARY2");
                MonthBoundary2=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE DATEBOUNDARY");
                dateBoundary1=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE DATEBOUNDARY2");
                dateBoundary2=Integer.valueOf(crf.readLine());

                for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                    for(int j=dateBoundary1;j<=dateBoundary2;j++){
                            for(int k=0;k<visitors[i][j].length;k++){
                                    sum=sum+visitors[i][j][k];
                                }
                    }
                }

                sum2=((MonthBoundary2 - MonthBoundary1 + 1)+(dateBoundary2 -
dateBoundary1 + 1))*24;
                mainAverage=sum/sum2;
                System.out.println("SUM         :"+sum);
                System.out.println("AVERAGE     :"+mainAverage);
                System.out.println("\n");
                break;
```

```
            case 6:
                    System.out.println("\n");
                    System.out.println("ENTER THE MONTHBOUNDARY1");
                    MonthBoundary1=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE MONTHBOUNDARY2");
                    MonthBoundary2=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE DATEBOUNDARY1");
                    dateBoundary1=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE DATEBOUNDARY2");
                    dateBoundary2=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE HOURBOUNDARY1");
                    hourBoundary1=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE HOURBOUNDARY2");
                    hourBoundary2=Integer.valueOf(crf.readLine());
                    for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                            for(int j=dateBoundary1;j<=dateBoundary2;j++){
                                for(int k=hourBoundary1;k<=hourBoundary2;k++){
                                        sum=sum+visitors[i][j][k];
                                }
                            }
                    }

                    sum2=(MonthBoundary2 - MonthBoundary1 + 1)*((dateBoundary2 -
dateBoundary1 + 1)*(hourBoundary2 - hourBoundary1 + 1));
                    mainAverage=sum/sum2;
                    System.out.println("SUM         :"+sum);
                    System.out.println("AVERAGE     :"+mainAverage);
                    System.out.println("\n");
                    break;
            case 7:
                    System.out.println("\n");
                    System.out.println("ENTER THE COUNT OF MONTHBOUNDARY
CONDITION");
                    n=Integer.valueOf(crf.readLine());

                    for(int l=0;l<n;l++){
                        System.out.println("ENTER THE MONTHBOUNDARY1");
                        MonthBoundary1=Integer.valueOf(crf.readLine());
                        System.out.println("ENTER THE MONTHBOUNDARY2");
                        MonthBoundary2=Integer.valueOf(crf.readLine());
                            for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                                for(int j=0;j<visitors[i].length;j++){
                                    for(int k=0;k<visitors[i][j].length;k++){
                                            sum=sum+visitors[i][j][k];
                                    }
```

```
                            }
                        }
                totsum2=totsum2+sum;
                for(int f=MonthBoundary1;f<=MonthBoundary2;f++){
                    sum2=sum2+days[f];
                    limit+=1;
                }
            }
            mainAverage=totsum2/(sum2/limit);
            System.out.println("SUM      :"+totsum2);
            System.out.println("AVERAGE  :"+mainAverage);
            System.out.println("\n");
            break;

        case 8:
            System.out.println("\n");
            int totdb=0;
            System.out.println("ENTER THE MONTHBOUNDARY1");
            MonthBoundary1=Integer.valueOf(crf.readLine());
            System.out.println("ENTER THE MONTHBOUNDARY2");
            MonthBoundary2=Integer.valueOf(crf.readLine());
            System.out.println("ENTER THE COUNT OF DATEBOUNDARY CONDITION");
            n=Integer.valueOf(crf.readLine());
            for(int s=0;s<n;s++){
                    System.out.println("ENTER THE DATEBOUNDARY1");
                    dateBoundary1=Integer.valueOf(crf.readLine());
                    System.out.println("ENTER THE DATEBOUNDARY2");
                    dateBoundary2=Integer.valueOf(crf.readLine());
                for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                        for(int j=dateBoundary1;j<=dateBoundary2;j++){
                                for(int k=0;k<visitors[i][j].length;k++){
                                            sum=sum+visitors[i][j][k];
                                }
                        }

                }
                totsum2=totsum2+sum;
                totdb=totdb+(dateBoundary2 - dateBoundary1 + 1);
            }

            sum2=(((MonthBoundary2 - MonthBoundary1 + 1)+totdb)*24);
            mainAverage=totsum2/sum2;
            System.out.println("SUM      :"+totsum2);
            System.out.println("AVERAGE  :"+mainAverage);
            System.out.println("\n");
```

```
                break;
        case 9:
                int tothb=0;
                System.out.println("\n");
                System.out.println("ENTER THE MONTHBOUNDARY1");
                MonthBoundary1=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE MONTHBOUNDARY2");
                MonthBoundary2=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE DATEBOUNDARY1");
                dateBoundary1=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE DATEBOUNDARY2");
                dateBoundary2=Integer.valueOf(crf.readLine());
                System.out.println("ENTER THE COUNT OF HOURBOUNDARY CONDITION");
                n=Integer.valueOf(crf.readLine());
                for(int l=0;l<n;l++){
                        System.out.println("ENTER THE HOURBOUNDARY1");
                        hourBoundary1=Integer.valueOf(crf.readLine());
                        System.out.println("ENTER THE HOURBOUNDARY2");
                        hourBoundary2=Integer.valueOf(crf.readLine());
                        for(int i=MonthBoundary1;i<=MonthBoundary2;i++){
                                for(int j=dateBoundary1;j<=dateBoundary2;j++){
                                    for(int
k=hourBoundary1;k<=hourBoundary2;k++){
                                            sum=sum+visitors[i][j][k];
                                    }
                                }
                        }
                        totsum2=totsum2+sum;
                        tothb=tothb+(hourBoundary2 - hourBoundary1 + 1);
                }


                    sum2=(MonthBoundary2 - MonthBoundary1 + 1)*((dateBoundary2 -
dateBoundary1 + 1)*(tothb));
                    mainAverage=totsum2/sum2;
                    System.out.println("SUM      :"+totsum2);
                    System.out.println("AVERAGE  :"+mainAverage);
                    System.out.println("\n");
                    break;

            case 10:


                for(int i=0;i<visitors.length;i++){
                    for(int j=0;j<visitors[i].length;j++){
```

```
                        for(int k=0;k<visitors[i][j].length;k++){

                                System.out.print(visitors[i][j][k]+" ");
                        }
                         System.out.println("\n");

                    }
                        System.out.println("\n");
            }
            break;

            default:
                System.out.println("invalid");
                break;

                }

            System.out.println("ENTER PRESS 1 TO CONTINUE");
            con=Integer.valueOf(crf.readLine());
        }while(con==1);

    }
}
```

Output:

```
C:\Users\students\Documents\kavitha>javac Project.java

C:\Users\students\Documents\kavitha>java Project

1.MonthAverage                  2.dateAverage                          3.hourAverage
4.boundary Condition for month  5.boundary condition for month and date  6.condition for month,date,hour
7.multiple boundaries for month 8.multiple  boundaries for month,date    9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
1
ENTER THE MONTH
5
SUM OF MONTH     :54040
AVERAGE OF MONTH :1801


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                  2.dateAverage                          3.hourAverage
4.boundary Condition for month  5.boundary condition for month and date 6.condition for month,date,hour
7.multiple boundaries for month 8.multiple  boundaries for month,date   9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
2
ENTER THE date
7
SUM OF DAY     :22137
AVERAGE OF DAy :1844


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                  2.dateAverage                          3.hourAverage
4.boundary Condition for month  5.boundary condition for month and date 6.condition for month,date,hour
7.multiple boundaries for month 8.multiple  boundaries for month,date   9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
3
ENTER THE HOUR
13
SUM OF HOUR     :27101
AVERAGE OF HOUR :1129


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                  2.dateAverage                          3.hourAverage
4.boundary Condition for month  5.boundary condition for month and date 6.condition for month,date,hour
7.multiple boundaries for month 8.multiple  boundaries for month,date   9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
4


ENTER THE MONTHBOUNDARY1
3
ENTER THE MONTHBOUNDARY2
5
SUM OF MONth:163217
AVERAGE     :5440


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                    2.dateAverage                          3.hourAverage
4.boundary Condition for month    5.boundary condition for month and date  6.condition for month,date,hour
7.multiple boundaries for month   8.multiple  boundaries for month,date    9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
5


ENTER THE MONTHBOUNDARY1
7
ENTER THE MONTHBOUNDARY2
9
ENTER THE DATEBOUNDARY
12
ENTER THE DATEBOUNDARY2
24
SUM         :70217
AVERAGE     :182
```

```
1.MonthAverage                    2.dateAverage                          3.hourAverage
4.boundary Condition for month    5.boundary condition for month and date  6.condition for month,date,hour
7.multiple boundaries for month   8.multiple  boundaries for month,date    9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
6


ENTER THE MONTHBOUNDARY1
2
ENTER THE MONTHBOUNDARY2
6
ENTER THE DATEBOUNDARY1
13
ENTER THE DATEBOUNDARY2
20
ENTER THE HOURBOUNDARY1
12
ENTER THE HOURBOUNDARY2
15
SUM         :11853
AVERAGE     :74


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                    2.dateAverage                          3.hourAverage
4.boundary Condition for month    5.boundary condition for month and date  6.condition for month,date,hour
7.multiple boundaries for month   8.multiple  boundaries for month,date    9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
7


ENTER THE COUNT OF MONTHBOUNDARY CONDITION
2
ENTER THE MONTHBOUNDARY1
3
ENTER THE MONTHBOUNDARY2
8
ENTER THE MONTHBOUNDARY1
2
ENTER THE MONTHBOUNDARY2
7
SUM      :985242
AVERAGE  :32841


ENTER PRESS 1 TO CONTINUE
```

```
1.MonthAverage                    2.dateAverage                          3.hourAverage
4.boundary Condition for month    5.boundary condition for month and date  6.condition for month,date,hour
7.multiple boundaries for month   8.multiple  boundaries for month,date    9.mutilple boundaries for momth,date,hour
10.To view the fetched values

ENTER THE CHOICE
8


ENTER THE MONTHBOUNDARY1
4
ENTER THE MONTHBOUNDARY2
8
ENTER THE COUNT OF DATEBOUNDARY CONDITION
2
ENTER THE DATEBOUNDARY1
2
ENTER THE DATEBOUNDARY2
5
ENTER THE DATEBOUNDARY1
12
ENTER THE DATEBOUNDARY2
20
SUM      :152722
AVERAGE  :353
```

```
ENTER THE CHOICE
9


ENTER THE MONTHBOUNDARY1
10
ENTER THE MONTHBOUNDARY2
11
ENTER THE DATEBOUNDARY1
15
ENTER THE DATEBOUNDARY2
20
ENTER THE COUNT OF HOURBOUNDARY CONDITION
2
ENTER THE HOURBOUNDARY1
12
ENTER THE HOURBOUNDARY2
13
ENTER THE HOURBOUNDARY1
5
ENTER THE HOURBOUNDARY2
9
SUM      :8215
AVERAGE  :97


ENTER PRESS 1 TO CONTINUE
```