Name: Sumedh ahire

Roll no:03

FYMCA-B

Assignment 1

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```
#include<iostream>
using namespace std;

class Weather
{
        private:

                int day;
                float htemp,ltemp,rainAmount,snowAmount;

        public:
                Weather()
                {

                        day=0;

                        htemp=999;

                        ltemp=-999;

                        rainAmount=0;
```

```
        snowAmount=0;

}

Weather(int a,float b,float c,float d,float e)
{

        day=a;
        htemp=b;
        ltemp=c;
        rainAmount=d;
        snowAmount=e;

}

Weather(Weather &w)
{

        day=w.day;

        htemp=w.htemp;

        ltemp=w.ltemp;

        rainAmount=w.rainAmount;

        snowAmount=w.snowAmount;
```

```
}

void accept()
{
        cout<<"\nEnter the day of month:";

        cin>>day;

        cout<<"Enter high temperature:";

        cin>>htemp;

        cout<<"Enter low temperature:";

        cin>>ltemp;

        cout<<"Enter the rain of day:";

        cin>>rainAmount;

        cout<<"Enter the snow of day:";

        cin>>snowAmount;

}

void display(){
```

```
cout<<"\n"<<day<<"\t"<<htemp<<"\t"<<ltemp<<"\t"<<rainAmount<<"\t"<<snowAmount;
                cout<<"\n-----------------------------------------------\n";
        }

        void average(Weather w4[31],int n){

                float sumht=0.0,sumlt=0.0,sumrain=0.0,sumsnow=0.0;

                float alt,aht,arain,asnow;
                for(int i=0;i<n;i++)
                {

                        sumht=sumht+w4[i].htemp;
                        sumlt=sumlt+w4[i].ltemp;
                        sumrain=sumrain+w4[i].rainAmount;
                        sumsnow=sumsnow+w4[i].snowAmount;

                }
                alt=sumlt/n;
                aht=sumht/n;
                arain=sumrain/n;
                asnow=sumsnow/n;
                cout<<"\nAverage of:"<<arain;
                cout<<"\nAverage of Snow:"<<asnow;
                cout<<"\nAverage of High temp:"<<aht;
                cout<<"\nAverage of Low temp:"<<alt;
```

```
                }

};

int main()
{

        int ch,n=0,i;

        Weather w1[31];
        Weather w2;

 do{

                cout<<"--------Weather Report------";
                cout<<"\n1.Accept"<<"\n2.Display"<<"\n3.Average"<<"\n4.EXIT\n";
                cout<<"\nEnter choice:";
                cin>>ch;

switch(ch)
{

  case 1:
        cout<<"\nEnter the number of days: \n";

        cin>>n;

        for(i=0;i<n;i++){
```

```
                cout<<"Enter the values for day "<<i+1;
                cout<<"\n";
                w1[i].accept();

            }

            break;

  case 2:
     cout<<"\nDay"<<"\t"<<"Htem"<<"\t"<<"Ltem"<<"\t"<<"Rain"<<"\t"<<"Snow";
            cout<<"\n==========================================\n";
            for(i=0;i<n;i++)
            {

              w1[i].display();

            }
            break;

  case 3:
            w2.average(w1,n);
            break;

}
 }
 while(ch!=3);

   return 0;
```

}

----------OutPut----------

--------Weather Report------

1.Accept

2.Display

3.Average

4.EXIT

Enter choice:1

Enter the number of days:

2

Enter the values for day 1

Enter the day of month:10

Enter high temperature:29.3

Enter low temperature:21.2

Enter the rain of day:9.2

Enter the snow of day:8.5

Enter the values for day 2

Enter the day of month:11

Enter high temperature:31.2

Enter low temperature:20.8

Enter the rain of day:10.3

Enter the snow of day:8.9

--------Weather Report------

1.Accept

2.Display

3.Average

4.EXIT

Enter choice:2

Day Htem Ltem Rain Snow

==========

10 29.3 21.2 9.2 8.5

----

11 31.2 20.8 10.3 8.9

--------Weather Report------

1.Accept

2.Display

3.Average

4.EXIT

Enter choice:3

Average of:9.75

Average of Snow:8.7

Average of High temp:30.25

Average of Low temp:21

Process exited after 69.63 seconds with return value 0

Press any key to continue . . .