/\* PROBLEM: Create a class named weather report that holds a daily weather report with data members day\_of\_month,hightemp,lowtemp,rainfall,snowfall.use different types types of constructors to initialize the objects.Also include afunction that prompts the user and sets values for each field so that you can override the default values. Write a display menu driven program in C++ with options to enter the data and generate monthly report that displays average of each attribute.Name:Pravin Salunkhe

SE-10

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#include<iostream>

using namespace std;

class weather //class creation

{

public:

int day,highTemp,lowTemp,amtRain,amtSnow;

weather() //constructor

{

day=99;

highTemp=999;

lowTemp=-999;

amtRain=0;

amtSnow=0;

}

};

int main()

{

int sumHT=0,sumLT=0,sumR=0,sumS=0;

float avgHT=0,avgLT=0,avgR=0,avgS=0;

int i,n=0,choice;

weather w[30];

do{

cout<<"\n\n1.Display"<<"\n\n2.Update"<<"\n\n3.Average"<<"\n\n4.Exit";

cout<<"\n\n\nEnter Choice";

cin>>choice;

switch(choice)

{

case 1:

cout<<"Sr.No. Day High Temp Low Temp Amt Rain Amt Snow";

for(i=0;i<30;i++)

cout<<"\n"<<i+1<<"\t"<<w[i].day<<"\t"<<w[i].highTemp<<"\t\t"<<w[i].lowTemp<<"\t\t"<<w[i].amtRain<<"\t\t"<<w[i].amtSnow;

break;

case 2:

n++;

cout<<"Enter day";

cin>>i;

i--;

w[i].day=i+1;

cout<<"Enter High Temp (-30 to 70)";

cin>>w[i].highTemp;

sumHT=sumHT+w[i].highTemp;

cout<<"Enter low Temp (-30 to 70)";

cin>>w[i].lowTemp;

sumLT=sumLT+w[i].lowTemp;

cout<<"Enter Rainfall";

cin>>w[i].amtRain;

sumR=sumR+w[i].amtRain;

cout<<"Enter Snowfall";

cin>>w[i].amtSnow;

sumS=sumS+w[i].amtSnow;

avgHT=sumHT/n;

avgLT=sumLT/n;

avgR=sumR/n;

avgS=sumS/n;

break;

case 3:

cout<<"\nAverage High Temperature : "<<avgHT;

cout<<"\nAverage Low Temperature : "<<avgLT;

cout<<"\nAverage Rainfall : "<<avgR;

cout<<"\nAverage Snow : "<<avgS;

break;

case 4:

break;

}

}while(choice!=4);

return 0;

}

OUTPUT

1.Display

2.Update

3.Average

4.Exit

Enter Choice1

Sr.No. Day High Temp Low Temp Amt Rain Amt Snow

1 99 999 -999 0 0

2 99 999 -999 0 0

3 99 999 -999 0 0

4 99 999 -999 0 0

5 99 999 -999 0 0

6 99 999 -999 0 0

7 99 999 -999 0 0

8 99 999 -999 0 0

9 99 999 -999 0 0

10 99 999 -999 0 0

11 99 999 -999 0 0

12 99 999 -999 0 0

13 99 999 -999 0 0

14 99 999 -999 0 0

15 99 999 -999 0 0

16 99 999 -999 0 0

17 99 999 -999 0 0

18 99 999 -999 0 0

19 99 999 -999 0 0

20 99 999 -999 0 0

21 99 999 -999 0 0

22 99 999 -999 0 0

23 99 999 -999 0 0

24 99 999 -999 0 0

25 99 999 -999 0 0

26 99 999 -999 0 0

27 99 999 -999 0 0

28 99 999 -999 0 0

29 99 999 -999 0 0

30 99 999 -999 0 0

1.Display

2.Update

3.Average

4.Exit

Enter Choice2

Enter day1

Enter High Temp (-30 to 70)33

Enter low Temp (-30 to 70)32

Enter Rainfall12

Enter Snowfall23

1.Display

2.Update

3.Average

4.Exit

Enter Choice2

Enter day2

Enter High Temp (-30 to 70)56

Enter low Temp (-30 to 70)45

Enter Rainfall34

Enter Snowfall23

1.Display

2.Update

3.Average

4.Exit

Enter Choice2

Enter day3

Enter High Temp (-30 to 70)66

Enter low Temp (-30 to 70)55

Enter Rainfall45

Enter Snowfall34

1.Display

2.Update

3.Average

4.Exit

Enter Choice3

Average High Temperature : 51

Average Low Temperature : 44

Average Rainfall : 30

Average Snow : 26

1.Display

2.Update

3.Average

4.Exit

Enter Choice1

Sr.No. Day High Temp Low Temp Amt Rain Amt Snow

1 1 33 32 12 23

2 2 56 45 34 23

3 3 66 55 45 34

4 99 999 -999 0 0

5 99 999 -999 0 0

6 99 999 -999 0 0

7 99 999 -999 0 0

8 99 999 -999 0 0

9 99 999 -999 0 0

10 99 999 -999 0 0

11 99 999 -999 0 0

12 99 999 -999 0 0

13 99 999 -999 0 0

14 99 999 -999 0 0

15 99 999 -999 0 0

16 99 999 -999 0 0

17 99 999 -999 0 0

18 99 999 -999 0 0

19 99 999 -999 0 0

20 99 999 -999 0 0

21 99 999 -999 0 0

22 99 999 -999 0 0

23 99 999 -999 0 0

24 99 999 -999 0 0

25 99 999 -999 0 0

26 99 999 -999 0 0

27 99 999 -999 0 0

28 99 999 -999 0 0

29 99 999 -999 0 0

30 99 999 -999 0 0

1.Display

2.Update

3.Average

4.Exit

Enter Choice4