Tut # 8: Q8 Model answer

Q8) Draw a flow chart and Write a C++ program that prompts the user for their quarterly water bill for the last four quarters. The program should find and output their average monthly water bill. If the average bill exceeds $75, the output should include a message indicating that too much water is being used. If the average bill is at least $25 but no more than $75, the output should indicate that a typical amount of water is being used. Finally, if the average bill is less than $25, the output should contain a message praising the user for conserving water.

Use the sample output below as a model for your output.

Sample Run 1:

Please input your water bill for quarter 1:
300
Please input your water bill for quarter 2:
200
Please input your water bill for quarter 3:
225
Please input your water bill for quarter 4:
275
Your average monthly bill is $83.33. You are using excessive amounts of water

Sample Run 2:

Please input your water bill for quarter 1:
100
Please input your water bill for quarter 2:
150
Please input your water bill for quarter 3:
75
Please input your water bill for quarter 4:
125
Your average monthly bill is $37.50. You are using a typical amount of water

```cpp
# include<iostream>
using namespace std;
void main()
{
    int sum=0, quarter ; float avg;
    cout<<"please enter your water bill for quarter 1  :";
    cin>>quarter;
    sum=sum+quarter;
    cout<<"please enter your water bill for quarter 2  :";
    cin>>quarter;
    sum=sum+quarter;
    cout<<"please enter your water bill for quarter 3  :";
    cin>>quarter;
    sum=sum+quarter;
    cout<<"please enter your water bill for quarter 4  :";
    cin>>quarter;
    sum=sum+quarter;
    avg=float(sum)/12;
    cout<<"your average monthly bill is "<<avg<<"$.";
    if(avg>75)
        cout<<"you are using excessive amounts of water."<<endl;
    else if(avg>=25 && avg <75)
        cout<<"you use a typical amount of water"<<"\n";
    else
        cout<<"Good you use a very small amount of water.\n Thanks for saving water.";
}
```