Report

Cover

Student name

Group

ID

Lab 1 : .....

Anything else, you can design your own cover

Lab1-Ex1 description

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

int main()
{
    float a;
    float b;
    float c;
    float delta;
    float x1;
    float x2;

//    cout<<"Enter a: "; cin>>a;
//    cout<<"Enter b: "; cin>>b;
//    cout<<"Enter c: "; cin>>c;
    cout<<"Enter a b c: ";  cin>>a>>b>>c;

    delta = b * b - 4 * a * c;
    if(delta == 0)
    {
        x1 = x2 = -b / 2 * a;
        cout<<"Answer has only one: "<<x1;
    }
    else if(delta > 0)
    {
        x1 = -b - sqrt(delta)/(2 * a);
        x2 = -b + sqrt(delta)/(2 * a);
        cout<<"The equation has 2 roots:\n";
        cout<<"\tX1="<<x1;
        cout<<"\tX2="<<x2;
    }
    else
    {
        cout<<"No answer";
    }
    return 0;
```

```
D:\AdvacnedAlgorithm2024CADT\W1\W1-G1-test.exe
Enter a b c: 4 4 1
Answer has only one: -8
Process returned 0 (0x0)   execution time : 1.898 s
Press any key to continue.
```

Lab2-Ex1 description

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

void calculate(int x){
    float sum=0;

    for(int k=1; k<=x; k++){
//          sum = sum + 1.0/k;
        sum = sum + (float)1/k; //type casting
        cout<<"1/"<<k<<" + ";
    }
    cout<<"\b\b";
    cout<<" = ";
    cout<<sum;
}

main(){
    calculate(20);
}
```