

Cover

Student name

Group

ID

Lab 1 :

Anything else, you can design
your own cover

Lab1-Ex1 description

```
1  #include<iostream>
2  #include<cmath>
3  using namespace std;
4
5  int main()
6  {
7      float a;
8      float b;
9      float c;
10     float delta;
11     float x1;
12     float x2;
13
14     // cout<<"Enter a: "; cin>>a;
15     // cout<<"Enter b: "; cin>>b;
16     // cout<<"Enter c: "; cin>>c;
17     cout<<"Enter a b c: "; cin>>a>>b>>c;
18
19     delta = b * b - 4 * a * c;
20     if(delta == 0)
21     {
22         x1 = x2 = -b / 2 * a;
23         cout<<"Answer has only one: "<<x1;
24     }
25     else if(delta > 0)
26     {
27         x1 = -b - sqrt(delta)/(2 * a);
28         x2 = -b + sqrt(delta)/(2 * a);
29         cout<<"The equation has 2 roots:\n";
30         cout<<"\tX1="<<x1;
31         cout<<"\tX2="<<x2;
32     }
33     else
34     {
35         cout<<"No answer";
36     }
37     return 0;
```

D:\AdvacnedAlgorithm2024CADT\W1\W1-G1-test.exe

Enter a b c: 4 4 1

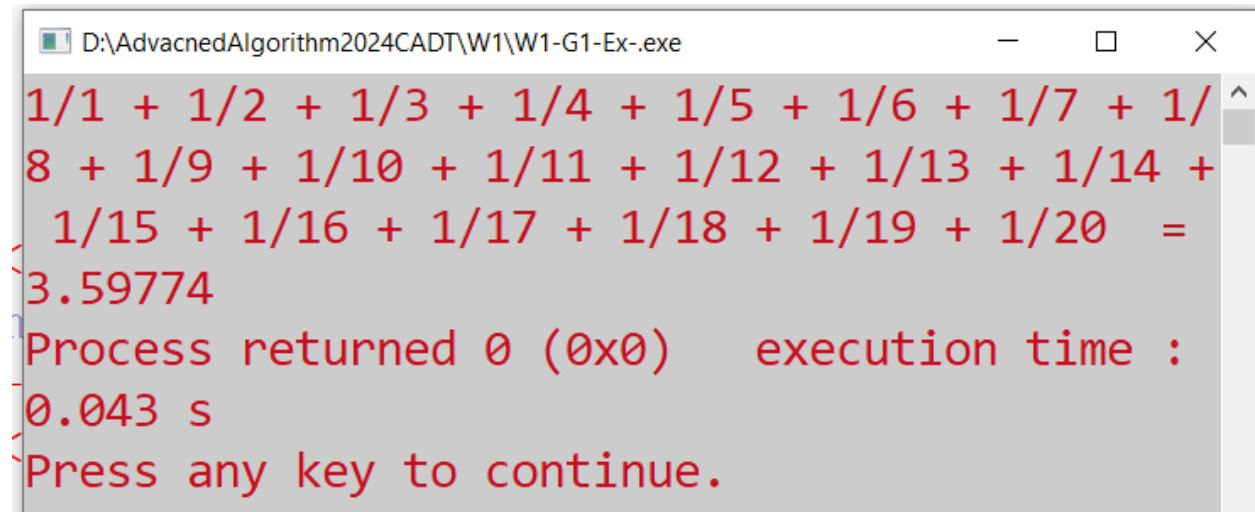
Answer has only one: -8

Process returned 0 (0x0) execution time : 1.898 s

Press any key to continue.

Lab2-Ex1 description

```
1  #include<iostream>
2  using namespace std;
3
4  void calculate(int x) {
5      float sum=0;
6
7      for(int k=1; k<=x; k++) {
8          //      sum = sum + 1.0/k;
9          sum = sum + (float)1/k; //type casting
10         cout<<"1/"<<k<<" + ";
11     }
12     cout<<"\b\b";
13     cout<<" = ";
14     cout<<sum;
15 }
16
17 main() {
18     calculate(20);
19 }
```



```
D:\AdvacnedAlgorithm2024CADT\W1\W1-G1-Ex-.exe
1/1 + 1/2 + 1/3 + 1/4 + 1/5 + 1/6 + 1/7 + 1/
8 + 1/9 + 1/10 + 1/11 + 1/12 + 1/13 + 1/14 +
 1/15 + 1/16 + 1/17 + 1/18 + 1/19 + 1/20 =
3.59774
Process returned 0 (0x0)    execution time :
0.043 s
Press any key to continue.
```