

Write a class ACCOUNT that represents your bank account then use it. The class should allow you to deposit money, withdraw money, calculate interest, send you a message if you have insufficient balance.

Bank Account

Assignment - 5

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CODE

```
1  /*
2   Write a class ACCOUNT that represents your bank account then use it.
3
4   The class should allow you to deposit money, withdraw money, calculate interest,
5   send you a message if you have insufficient balance.
6
7  */
8
9
10 #include <iostream>
11 using namespace std;
12
13 class Account
14 {
15 private:
16     double balance, amount;
17
18 public:
19
20     Account(double initial_money)
21     {
22         balance = initial_money;
23         cout<<"Your bank balance is: "<<balance<<endl;
24     }
25
26     void deposit()
27     {
28         cout<<"Enter the deposit amount: ";
29         cin>>amount;
30
31         balance = balance + amount;
32
33         cout<<"Your total balance: "<<balance<<endl;
34     }
35
36     void withdraw()
37     {
38         cout<<"Enter the withdrawal amount: ";
39         cin>>amount;
40
41         if(balance < amount)
42         {
43             cout<<"You have insufficient balance.\n Exiting";
44             exit(0);
45         }
46
47         balance = balance - amount;
48
49         cout<<"Your remaining balance is: "<<balance<<endl;
50     }
```

```
52     void interest(int time)
53     {
54         // Rate is 2.5% p.a.
55         // Time will be entered in years
56         const float rate = 0.025;
57         double interest = 0;
58
59         interest = balance * rate * time;
60
61         cout<<"The interest after "<<time<<" years is: "<<interest<<endl;
62     }
63 };
64
65 int main()
66 {
67     Account myAccount(2000);
68
69     myAccount.deposit();
70     myAccount.withdraw();
71     myAccount.interest(5);
72
73     return 0;
74 }
```

OUTPUT

PROBLEMS	OUTPUT	DEBUG CONSOLE	TERMINAL
			PS D:\CUH\4th Sem\OOP with C++\Lab\5. Bank Account> cd "d:\CUH\4th Sem\OOP with C++\Lab\5. Bank Account\" ; if (\$?) { g++ BankAccount.cpp -o BankAccount } ; if (\$?) { .\BankAccount }
			Your bank balance is: 2000
			Enter the deposit amount: 1500
			Your total balance: 3500
			Enter the withdrawal amount: 250
			Your remaining balance is: 3250
			The interest after 5 years is: 406.25