

```
Account.h AccountTest.cpp x
1  #include <iostream>
2  #include "Account.h"
3
4  using namespace std;
5
6  int main() {
7
8      double deposit = 0;
9      Account acct = Account();
10     acct.setRate(0.015);
11     acct.addBalance(1000);
12
13     cout << "Current Balance: $" << acct.checkBalance() << endl;
14     for (int i = 1; i <= 3; i++) {
15         cout << "Year " << i << ": $" << acct.getBalance(i) << endl;
16     }
17
18     return 0;
19 }
20
21 // Encapsulation: A class encapsulates all of an object's attributes and behavior.
22 // Inheritance: The relationship between a superclass and an inherited class.
23 // Abstraction: An abstract class cannot be instantiated, but other classes can inherit from it.
24 // Polymorphism: means the ability to take many forms. e.g. Account acct = Account();
25
26
27
28
```

```
1. bash
Last login: Sun May 19 21:07:32 on ttys001
Kripas-MacBook-Pro:~ kripak$ cd Downloads
Kripas-MacBook-Pro:Downloads kripak$ g++ AccountTest.cpp
In file included from AccountTest.cpp:2:
./Account.h:9:24: warning: in-class initialization of non-static data member is
a C++11 extension [-Wc++11-extensions]
double acctBalance_=0.0; //data member
      ^
./Account.h:10:22: warning: in-class initialization of non-static data member is
a C++11 extension [-Wc++11-extensions]
double interestRate_=0.0;
      ^
2 warnings generated.
Kripas-MacBook-Pro:Downloads kripak$ ./a.out
Current Balance: $1000
Year 1: $1015
Year 2: $1030.22
Year 3: $1045.68
Kripas-MacBook-Pro:Downloads kripak$
```