Follow Coding Standards

Day 8 Assignments

1. Create a SavingsAccount class. Use a ***static data member*** annualInterestRate to store the annual interest rate for each of the savers. Each member of the class contains a private data member savingsBalance indicating the amount the saver currently has on deposit. Provide member function calculateMonthlyInterest that calculates the monthly interest by multiplying the balance by annualInterestRate divided by 12; this interest should be added to savingsBalance. Provide a ***static member function*** modifyInterestRate that sets the static annualInterestRate to a new value. Write a driver program to test class SavingsAccount. Instantiate two different objects of class SavingsAccount, saver1 and saver2, with balances of $2000.00 and $3000.00, respectively. Set the annualInterestRate to 3 percent. Then calculate the monthly interest and print the new balances for each of the savers. Then set the annualInterestRate to 4 percent, calculate the next month's interest and print the new balances for each of the savers.
2. For a class Date with day, month and year as member variables , overload operators to get & display a date, increment a date by one day using ++, compare two dates with == , > and < to see which date comes first or later .
3. A LAN administrator needs to keep a count of the printers connected in the network. The system uses a class CPrinter as below.

Implement the class and test with the following main function.

void main() {

cout << CPrinter :: getCount() << " Printers connected" << endl;

CPrinter :: listPrinters();

CPrinter \* p1 = new CPrinter ( " EPSON");

CPrinter \* p2 = new CPrinter (" HP");

cout << CPrinter :: getCount() << " Printers connected" << endl;

CPrinter :: listPrinters();

delete p2;

cout << CPrinter :: getCount() << " Printers connected" << endl;

CPrinter :: listPrinters();

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