// Gavin Garner CS 317

// Bank Charges

// This program calculates the bank's monthly service fees

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

float balance, checks, perCheck;

int bal400 = 0; // a check to see if the $15 fee applies

cout << "Enter the account's balance: ";

cin >> balance;

if (balance < 0)

cout << "WARNING: YOUR ACCOUNT IS OVERDRAWN!" << endl;

if (balance < 400.0)

{

bal400 = 1;

cout << "WARNING: Account balance under the 400 dollar limit and a $15 fee has been applied" << endl;

}

cout << "Enter the total number of checks written this month: ";

cin >> checks;

if (checks < 0) // fault tolerance is fun!

{

cout << "INVALID AMOUNT: Checks cannot be a negative number!" << endl;

return 0;

}

if (checks >= 0 && checks <= 19)

{

perCheck = 0.10;

}

if (checks >= 20 && checks <= 39)

{

perCheck = 0.08;

}

if (checks >= 40 && checks <= 59)

{

perCheck = 0.06;

}

if (checks >= 60)

{

perCheck = 0.04;

}

float totalFee = checks \* perCheck + (bal400 \* 15.00); // the last part adds on the 15 dollar charge if present

cout << setprecision(2) << fixed;

cout <<"The total monthly services fees are: $" << totalFee<< endl;

cout <<"The total balance is $" << balance - totalFee << endl;

return 0;

}







