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#include <iostream>
#include <string>
using namespace std;
double accountBalance = 0.0;
double accountWithdrawal(double x, double y);
double accountDeposit(double x, double y);
void displayBalance(double x);
int main() //This program is a simple ATM
       int accountNumber = 0; //Variable for the account number that the user will input
       int transaction = 0;
       double withdrawal = 0.0;
       double deposit = 0.0;
       string name;
       cout << "Welcome, Please enter your name" << endl; //For user to input name</pre>
       cout << "Please enter your account number\n"; //Asks the user for the account</pre>
number
       cin >> accountNumber;
       cout << "Thank you " << name << " Please choose a transaction\n";</pre>
       cout << "\t
                                                  \n"; //Displays a menu for the user to
                            MENU
make transactions
       cout << "\t
                     [1] Withdraw
                                          \n";
       cout << "\t
                     [2] Deposit
                                                  \n";
       cout << "\t
                    [3] Balance
                                                  \n";
       cout << "\t [4] Quit</pre>
       cin >> transaction; //Stores the selection from the menu in the variable
transaction
       while (transaction != 4) // the following will repeat until 4 is entered by the
user. 4 will quit the program
              switch (transaction) // Depending on the input transaction the code will
execute the corresponding action
              {
              case 1:
                     cout << "You have chosen Withdrawal\n";</pre>
                     cout << "Input how much you would like to withdraw\n";</pre>
                     cin >> withdrawal; //Stores the value to withdraw
                     accountBalance = accountWithdrawal(accountBalance, withdrawal);
//The new balance works the arithmetic using the function accountWitdrawal taking those
parameters
                     if (withdrawal < accountBalance) //This if statement avoids the user</pre>
from withdrawling more money than it is available
                            cout << "Your new balance is: $" << accountBalance;</pre>
                     else
                            cout << "Insufficient funds\n";</pre>
                     break;
              case 2:
                     cout << "You have chosen Deposit\n";</pre>
                     cout << "Input how much you would like to deposit\n";</pre>
                     cin >> deposit;
                     accountBalance = accountDeposit(accountBalance, deposit);
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cout << "Your new balances is: $" << accountBalance << endl;</pre>
                      break;
              case 3:
                      cout << "You have chosen Balance\n"; //Displays current balance</pre>
                     displayBalance(accountBalance);
                      break;
              default:
                      cout << "Invalid\n"; // Allows inputs from 1-4</pre>
                     break;
              }
              cout << "\nPlease choose a transaction" << endl; //When the user finishes</pre>
with one transaction it will repeat until the user decides to quit
              cin >> transaction;
       }
}
double accountWithdrawal(double x, double y) //Function that takes two arguments
       double wdrawAmount = x - y;
       return wdrawAmount;
double accountDeposit(double x, double y)
       double depAmount = x + y;
       return depAmount;
}
void displayBalance(double x)
       cout << "Your balance is: $" << x << endl;</pre>
}
```