

Intro to Programming in C – Program 2 – The Bank

Assignment purpose: User defined functions, pointers, Menu driven program

General Requirements:

- Use the function prototypes provided
- Assume correct data types for input
- Comments for each function appear before each prototype and again before each function definition.
- Be sure to comment your code adequately.
- Be sure to indent properly. Check the textbook and lecture code examples to see how it should be done.
- Use meaningful variable names.
- **Starting bank balances should be as follows:**
 - **Checking: \$ 650.00**
 - **Savings: \$ 800.00**
 - **Credit: \$ -700.00**
- Electronically submit only your source code, **program2.c**
- define a CREDITLIMIT of 3000
- You must use the user defined functions as follows:
 - No modifications may be made to the functions

```
#define _CRT_SECURE_NO_WARNINGS
#include<stdio.h>
#include<ctype.h>
#define CREDITLIMIT 3000

// Displays the list of integer options available
//prompts for the user's choice and sets the value of the choicePtr
void RunChoices(int *choicePtr);

//Asks if they want another transaction
//sets the value of againPtr to (y or n)
void MakeTransaction(char *againPtr);

//Asks the user which type of account they would like to access and sets the
//value of the the character accountPtr
void SelectAccount(char *accountPtr);

//Prompts the user for the amount to deposit
//and adds that value to the amount in the bank account
void AddMoney(double *moneyPtr);

//Prompts the user for the amount of the withdrawal, determines if there are
//sufficient funds and updates the selected account if funds are dispensed
void RemoveMoney(double *moneyPtr, char account);

//Displays the user's current account balance for all three accounts
void DisplayBalance(double checking, double savings, double credit);
```

Sample Output

Welcome to The Bank here are your account balances:

```
CHECKING:           $650.00
SAVINGS:            $800.00
CREDIT:             $-700.00
-----
```


CHECKING: \$850.00
SAVINGS: \$800.00
CREDIT: \$-700.00
Enter the amount you want to withdrawal: 2500

over the limit
~ Here are your new account balances:

CHECKING: \$850.00
SAVINGS: \$800.00
CREDIT: \$-700.00

*** Would you like to make another transaction (y or n)? y
---You selected: y

CHECKING: \$850.00
SAVINGS: \$800.00
CREDIT: \$-700.00

Select an option:

- (1) for DEPOSIT
(2) for WITHDRAWAL
*** to make a TRANSFER
select (2) for WITHDRAWAL and
then (1) for DEPOSIT

2
---You selected: 2

Select the account:

- (C) for CHECKING
(S) for SAVINGS
(R) for CREDIT s
---You selected s for account type

~ To make a Withdrawal, here are your account balances:

CHECKING: \$850.00
SAVINGS: \$800.00
CREDIT: \$-700.00
Enter the amount you want to withdrawal: 400

~ Here are your new account balances:

CHECKING: \$850.00
SAVINGS: \$400.00
CREDIT: \$-700.00

*** Would you like to make another transaction (y or n)? y
---You selected: y

