

Name:

**HIDANGMAYUM JASHWANT SHARMA**

Registration Number:

**RA2111039010010**

Department: **Civil Engineering(CE CA)-(A**

**Section)**

# C PROGRAMMING CODE FOR BANK APPLICATION

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>

// Structure declaration
struct acc_type
{
    char bank_name[20];
    char bank_branch[20];
    char acc_holder_name[30];
    int acc_number;
    char acc_holder_address[100];
    float available_balance;
};
struct acc_type account[20];

/*
    printf("The above structure can be declared using    typedef like
below");

    typedef struct acc_type
    {
        char bank_name[20];
        char bank_branch[20];
        char acc_holder_name[30];
        int acc_number;
        char acc_holder_address[100];
        float available_balance;
    }Acc_detail;

    Acc_detail account[20];
*/
```

```

int num_acc;

void Create_new_account();
void Cash_Deposit();
void Cash_withdrawl();
void Account_information();
void Log_out();
void display_options();

/* main program */
int main()
{
    char option;
    char f2f[50] = "http://fresh2refresh.com/";    num_acc=0;
    while(1)
    {
        printf("\n***** Welcome to Bank Application *****\n");    printf("\nThis demo
program is brought you by %s",f2f);    display_options();
        printf("Please enter any options (1/2/3/4/5/6) ");    printf("to continue :
");

        option = getch();
        printf("%c \n", option);
        switch(option)
        {
            case '1': Create_new_account();
                break;
            case '2': Cash_Deposit();
                break;
            case '3': Cash_withdrawl();
                break;
            case '4': Account_information();
                break;
            case '5': return 0;
            case '6': system("cls");
                break;
            default : system("cls");
                printf("Please enter one of the options"); printf("(1/2/3/4/5/6) to
                continue \n ");
                break;
        }
    }
    return 0;
}

/*Function to display available options in this application*/

void display_options()
{
    printf("\n1. Create new account \n");

```

```

    printf("2. Cash Deposit \n");
    printf("3. Cash withdrawl \n");
    printf("4. Account information \n");
    printf("5. Log out \n");
    printf("6. Clear the screen and display available "); printf("options \n\n");
}

```

/\* Function to create new account \*/

```

void Create_new_account()
{
    char bank_name[20];
    char bank_branch[20];
    char acc_holder_name[30];
    int acc_number;
    char acc_holder_address[100];
    float available_balance = 0;
    fflush(stdin);
    printf("\nEnter the bank name      : "); scanf("%s",
&bank_name);
    printf("\nEnter the bank branch      : "); scanf("%s",
&bank_branch);
    printf("\nEnter the account holder name  : "); scanf("%s",
&acc_holder_name);
    printf("\nEnter the account number(1 to 10): "); scanf("%d",
&acc_number);
    printf("\nEnter the account holder address : "); scanf("%s",
&acc_holder_address);

    strcpy(account[acc_number-1].bank_name,bank_name);
    strcpy(account[acc_number-1].bank_branch,bank_branch);
    strcpy(account[acc_number-1].acc_holder_name, acc_holder_name);
    account[acc_number-1].acc_number=acc_number;
    strcpy(account[acc_number-1].acc_holder_address,
acc_holder_address);
    account[acc_number-1].available_balance=available_balance;

    printf("\nAccount has been created successfully \n\n"); printf("Bank
name          : %s \n" ,
    account[acc_number-1].bank_name);
    printf("Bank branch          : %s \n" ,
    account[acc_number-1].bank_branch);
    printf("Account holder name    : %s \n" ,
    account[acc_number-1].acc_holder_name);
    printf("Account number        : %d \n" ,
    account[acc_number-1].acc_number);
    printf("Account holder address : %s \n" ,
    account[acc_number-1].acc_holder_address);
    printf("Available balance     : %f \n" ,
    account[acc_number-1].available_balance);
}

```

```
//num_acc++;
```

```
}
```

```
// Displaying account informations
```

```
void Account_information()
```

```
{
```

```
    register int num_acc = 0;
```

```
    //if (!strcmp(customer,account[count].name))
```

```
while(strlen(account[num_acc].bank_name)>0) {
```

```
    printf("\nBank name      : %s \n" ,
```

```
account[num_acc].bank_name);
```

```
    printf("Bank branch      : %s \n" ,
```

```
account[num_acc].bank_branch);
```

```
    printf("Account holder name  : %s \n" ,
```

```
account[num_acc].acc_holder_name);
```

```
    printf("Account number      : %d \n" ,
```

```
account[num_acc].acc_number);
```

```
    printf("Account holder address : %s \n" ,
```

```
account[num_acc].acc_holder_address);    printf("Available
```

```
balance      : %f \n\n" ,      account[num_acc].available_balance);
```

```
    num_acc++;
```

```
}
```

```
}
```

```
// Function to deposit amount in an account
```

```
void Cash_Deposit()
```

```
{
```

```
    auto int acc_no;
```

```
    float add_money;
```

```
    printf("Enter account number you want to deposit money:");
```

```
scanf("%d",&acc_no);
```

```
    printf("\nThe current balance for account %d is %f \n", acc_no,
```

```
account[acc_no-1].available_balance);    printf("\nEnter money you want to  
deposit : ");
```

```
    scanf("%f",&add_money);
```

```
    while (acc_no==account[acc_no-1].acc_number)
```

```
{
```

```
    account[acc_no-1].available_balance=
```

```
    account[acc_no-1].available_balance+add_money;    printf("\nThe New
```

```
balance for account %d is %f \n", acc_no,
```

```
account[acc_no-1].available_balance);    break;
```

```
    }acc_no++;
```

```
}
```

```
// Function to withdraw amount from an account
```

```

void Cash_withdrawl()
{
    auto int acc_no;
    float withdraw_money;

    printf("Enter account number you want to withdraw money:");
    scanf("%d",&acc_no);
    printf("\nThe current balance for account %d is %f \n", acc_no,
    account[acc_no-1].available_balance);
    printf("\nEnter money you want to withdraw from account ");
    scanf("%f",&withdraw_money);

    while (acc_no=account[acc_no-1].acc_number)
    {
        account[acc_no-1].available_balance=
        account[acc_no-1].available_balance-withdraw_money; printf("\nThe
New balance for account %d is %f \n", acc_no,
account[acc_no-1].available_balance); break;
    }acc_no++;
}

```

## SAMPLE BANK APPLICATION OUTPUT USING C PROGRAMMING CODE

```

***** Welcome to Bank Application *****

This demo program is brought you by http://fresh2refresh.com/
1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

Please enter any options <1/2/3/4/5/6> to continue : 1

Enter the bank name           : ICICI
Enter the bank branch         : Chennai
Enter the account holder name : Thiyagarajan
Enter the account number<1 to 10>: 1
Enter the account holder address : Namakkal

Account has been created successfully

Bank name           : ICICI
Bank branch         : Chennai
Account holder name : Thiyagarajan
Account number      : 1
Account holder address : Namakkal
Available balance   : 0.000000

***** Welcome to Bank Application *****

This demo program is brought you by http://fresh2refresh.com/
1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

```

Please enter any options (1/2/3/4/5/6) to continue : 2  
Enter the account number you want to deposit money : 1

The current balance for account 1 is 0.000000

Enter money you want to deposit to the account : 5000

The New balance for account 1 is 5000.000000

\*\*\*\*\* Welcome to Bank Application \*\*\*\*\*

This demo program is brought you by <http://fresh2refresh.com/>

1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

Please enter any options (1/2/3/4/5/6) to continue : 4

Bank name	: ICICI
Bank branch	: Chennai
Account holder name	: Thiyagarajan
Account number	: 1
Account holder address	: Namakkal
Available balance	: 5000.000000

\*\*\*\*\* Welcome to Bank Application \*\*\*\*\*

This demo program is brought you by <http://fresh2refresh.com/>

1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

Please enter any options <1/2/3/4/5/6> to continue : 3  
Enter the account number you want to withdraw money : 1

The current balance for account 1 is 5000.000000

Enter money you want to withdraw from the account 1500

The New balance for account 1 is 3500.000000

\*\*\*\*\* Welcome to Bank Application \*\*\*\*\*

This demo program is brought you by <http://fresh2refresh.com/>

1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

Please enter any options <1/2/3/4/5/6> to continue : 4

Bank name	: ICICI
Bank branch	: Chennai
Account holder name	: Thiyagarajan
Account number	: 1
Account holder address	: Namakkal
Available balance	: 3500.000000

\*\*\*\*\* Welcome to Bank Application \*\*\*\*\*

This demo program is brought you by <http://fresh2refresh.com/>

1. Create new account
2. Cash Deposit
3. Cash withdrawl
4. Account information
5. Log out
6. Clear the screen and display available options

Please enter any options <1/2/3/4/5/6> to continue : \_