**BANK APPLICATION PROJECT**



A Course Project Report in the course

**Problem Solving with Programming**

**School of Computer Science & Artificial Intelligence**

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**Project Description**

The project, A SAMPLE BANK APPLICATION PROJECT which is builed by using C Code program and this program will perform based on some operations like

1.Creating new account – To create a new account

2.Cash Deposit – To Deposit some amount in newly created account

3.Cash withdrawal – To Withdraw some amount from your account

4.Display Account information – It will display all informations of the existing accounts

5.Log out

6.Clearing the output screen and display available options.

So, overall this project allows you to do financial transaction as if you were at real bank. This is the way which we can get output by selecting option given as per required , and it is a sample code program application which developed by using the concepts :

1.Control Statements ( switch)

2.Loop Statements ( while )

3.Strings, break

4.Functions (Any type of user defined functions)

5.Structure (structures )

6.Pointers (pointer to strings and pointers to structures).

Finally ,we developed a sample project by using all above points .

**Project Code**

#include <stdio.h>

#include <conio.h>

#include <string.h>

#include <stdlib.h>

/\* -:A sample BANK APPLICATION project:- \*/

// 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];

/\* main program \*/

int main()

{

char option;

char f2f[50] = " Mr.Rathod Prashanth and team ";

int num\_acc=0;

while(1)

{

printf("\n\*\*\* Welcome to Bank Application \*\*\*\n");

printf("\nThis program is brought to 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);

}

// Displaying account informations

void Account\_information()

{

register int num\_acc = 0;

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++;

}

**Project Results**

\* Welcome to Bank Application \*

This program is brought to you by Mr.Rathod Prashanth and team

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 : SBI

Enter the bank branch : WARANGAL

Enter the account holder name : MR.R.PRASHANTH

Enter the account number(1 to 10): 7

Enter the account holder address : WARANGAL.LOCAL

Account has been created successfully

Bank name : SBI

Bank branch : WARANGAL

Account holder name : MR.R.PRASHANTH

Account number : 7

Account holder address : WARANGAL.LOCAL

Available balance : 0.000000

\* Welcome to Bank Application \*

This program is brought to you by Mr.Rathod Prashanth and team

1. Create new account

2. Cash Deposit

3. Cash withdrawl

4. Account information

5. Log out

6. Clear the screen and display available options

[7:19 pm, 08/07/2022] believer: Please enter any options (1/2/3/4/5/6): to continue : 2

Enter account number you want to deposit money:7

The current balance for account 7 is 0.000000

Enter money you want to deposit : 50000

The New balance for account 7 is 50000.000000

\* Welcome to Bank Application \*

This program is brought to you by Mr.Rathod Prashanth and team

1. Create new account

2. Cash Deposit

3. Cash withdrawl

4. Account information

5. Log out

6. Clear the screen and display available options

[7:20 pm, 08/07/2022] believer: Please enter any options (1/2/3/4/5/6): to continue : 3

Enter account number you want to withdraw money:7

The current balance for account 7 is 50000.000000

Enter money you want to withdraw from account 25000

The New balance for account 7 is 25000.000000

\* Welcome to Bank Application \*

This program is brought to you by Mr.Rathod Prashanth and team

1. Create new account

2. Cash Deposit

3. Cash withdrawl

4. Account information

5. Log out

6. Clear the screen and display available options