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/* -----Banking Application----- */
#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

/* Global Variables */

int a=0,i=101;

/*-----Declaration of Functions-----*/

void acc_create ();

void deposit ();

void withdrawal ();

void acc_info ();

struct account

{

int acc_num;

char acc_holdername[100];
float acc_avail_bal;
char acc_holderaddress[100];

} n[20];

/*-----Main Function-----*/
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void
main ()

{
    int a, b = 1;

    do

    {

        clrscr ();

        printf ("\n\t\t\tBank Application\n");

        printf ("1. Create Account\n");

        printf ("2. Cash Deposit\n");

        printf ("3. Cash Withdrawal\n");

        printf ("4. Display Account Information\n");

        printf ("Please select one option [1-4] from the above list\n");

        scanf ("%d", &a);

        switch (a)

        {

            case 1:
                acc_create (); break;

            case 2:
                deposit (); break;

            case 3:
                withdrawal (); break;

            case 4:
                acc_info ();
                break;

            default:
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printf (" Error in choosing the options\n");

}

printf ("\n Please press 1 to continue the service\n");

scanf ("%d", &b);

}
while (b == 1);

}

/*-----Creating Account Function-----*/

void
acc_create ()

{

printf ("\nPlease Enter the details\n");

printf ("Account Holder name: ");
scanf ("%s", &n[a].acc_holdername);

printf ("\nAccount Holder Address: ");

scanf ("%s", &n[a].acc_holderaddress);

printf
("\nEnter the intial amount of money that you would like to add to the account: ");

scanf ("%f", &n[a].acc_avail_bal);

n[a].acc_num = i;

printf ("\nAccount has been created Successfully");

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printf ("\n Please find the Account Details\n");

printf ("Account Number: %d", n[a].acc_num);

printf ("\nAccount Holder Name: %c", n[a].acc_holdername);

printf ("\nAccount Holder Address: %c", n[a].acc_holderaddress);

printf ("\nAvailable balance: %f", n[a].acc_avail_bal);

i++;

a++;
}

/*-----Deposit Function-----*/

void
deposit ()

{

float bal;

int acc_num;

printf ("\n Please enter the account number: \t");

scanf ("%d", &acc_num);

int flag=1;
for (int p=0; p<=a;p++)
{
if (n[p].acc_num==acc_num)

{

printf
("\n Please enter the amount of money that you would like to add: ");

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scanf ("%f", &bal);

n[p].acc_avail_bal += bal;

printf ("Your transacation is Successful ! \n");

printf ("Available Balance : %f", n[p].acc_avail_bal);

flag=0;
}

}
if(flag==1)
{
printf
("\n Sorry Entered Account number is INVALID ! Try again later\n");

return;

}

}

/*-----Withdrawal Function-----*/

void
withdrawal ()

{

int acc_num;

float amount;

printf ("\n Please enter the account number: \t");

scanf ("%d", &acc_num);

int flag=1;

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for(int p=0; p<=a; p++)
{
    if (n[p].acc_num==acc_num)

    {

printf
        ("\n Please enter the amount of money that you would like to add: ");

        scanf ("%f", &amount);

        if (n[p].acc_avail_bal < amount)

    {

        printf
        ("\n Sorry ! Your available balance is too LOW to make this transacation\n");

flag=0;
        return;

    }

    else

    {

        n[p].acc_avail_bal -= amount;

        printf ("Your transacation is Successful ! \n");

        printf ("Available Balance : %f", n[p].acc_avail_bal);

        flag=0;
    }

}

if(flag==1)
{
    printf
    ("\n Sorry Entered Account number is INVALID ! Try again later\n");
}

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    return;

}
}

/*-----Account Information Function-----*/
void
acc_info ()

{

int acc_num;

printf ("\n Please enter the account number: \t");

scanf ("%d", &acc_num);

int flag=1;
for(int p=0; p<=a; p++)
{
    if (n[p].acc_num == acc_num)

    {

        printf ("\n\t\t Account Deatils\n");

        printf ("Account Number: %d", n[p].acc_num);

        printf ("\nAccount Holder Name: %s", n[p].acc_holdername);

        printf ("\nAccount Holder Address: %s",n[p].acc_holderaddress);

        printf ("\nAvailable Balance: %f", n[p].acc_avail_bal);

        flag=0;
    }

}
}

```

```
if(flag==1)
{
    printf
        ("\n Sorry Entered Account number is INVALID ! Try again later\n");

    return;

}
}
```