PPS MINI PROJECT

NAME: V.SAI MATHUR

BRANCH: CSE

SECTION: A

ROLL NO: 1602-18-733-042

COURSE: B.E

SEMISTER: 1ST SEMISTER

```c
#include<stdio.h>
#include<string.h>
typedef struct
{
     char name[20];
     long long int phone_number;
     int age;
     long long int pincode;
     char res_name[30];
     long long int income;
     long long int bb;
     int account_no;
}bank;
int new_account(bank p[20]);
int view_account(bank p[20],int t);
int update_account(bank p[20],int t);
int  transaction(bank p[20],int t);
int remove_account(bank p[20],int t);
int display_customers(bank p[20],int t);
void main()
{
     int t=0;
     int decider;
     printf("\t\tBANKING SOFTWARE\t\t\n");
     printf("-------------------------------------------------------
-------------------------------------------\n");
     while(1)
     {
          bank p[20];
          int choice;
          printf("-------------------------------------------------
-----------------------------------------------\n");
          printf("\t\tMAINMENU\t\t\n");
          printf("-------------------------------------------------
-----------------------------------------------\n");
          printf("1.Add a new account\n");
          printf("2.Update an existing account\n");
          printf("3.Check the details of existing account\n");
          printf("4.Transactions\n");
          printf("5.view customers list\n");
          printf("6.Removing the existing account\n");
          printf("\nEnter your choice:\t");
          scanf("%d",&choice);
          switch(choice)
          {
               case 1: t=new_account(p);
               break;
               case 2: update_account(p,t);
               break;
               case 3: view_account(p,t);
               break;
               case 4: transaction(p,t);
               break;
               case 5: display_customers(p,t);
               break;
               case 6: remove_account(p,t);
```

```c
                break;
                default: printf("Invalid choice!\n");
                break;
            }
            printf("enter 1 if you want to continue, else enter 0:\t");
            scanf("%d",&decider);
            if(decider==0)
            {
                break;
            }
        }
}

int new_account(bank p[20])
{
    static int i=0;
    printf("\nenter name:\t");
    scanf("%s",p[i].name);    //Don't give spaces in between your name.
    printf("\nenter age:\t");    //Don't Enter the same person details
again.
    scanf("%d",&p[i].age);
    printf("\nenter phone number:\t");
    scanf("%lld",&p[i].phone_number);
    printf("\nenter pincode:\t");
    scanf("%lld",&p[i].pincode);
    printf("\nenter residence name:\t");
    scanf("%s",p[i].res_name);
    printf("\nenter your income per annum:\t");
    scanf("%lld",&p[i].income);
    p[i].account_no=i+1;
    p[i].bb=500;                    //Minimum Account Balance
    printf("\nYour account has been created successfully\n");
    printf("-----------------------------------------------------------
--------------------------------------------\n");
    printf("\t\tTHANK YOU\t\t\n");
    printf("-----------------------------------------------------------
--------------------------------------------\n");
    i++;
    return i;
}
int view_account(bank p[20],int t)
{
    int s;
    int i;
    printf("enter bank account number:\t");
    scanf("%d",&s);
    for(i=0;i<t;i++)
    {
        if(s==0)
        {
            printf("This account is deleted\n");
            printf("----------------------------------------------
-----------------------------------------------------\n");
        }
        if(s==p[i].account_no)
        {
            printf("----------------------------------------------
-------------------------------------------------");
```

```c
                printf("\nname:\t%s",p[i].name);
                printf("\nage:\t%d",p[i].age);
                printf("\nphone number:\t%lld",p[i].phone_number);
                printf("\npincode:\t%lld",p[i].pincode);
                printf("\nresidence:\t%s",p[i].res_name);
                printf("\nincome:\t%lld\n",p[i].income);
                printf("account number:\t%d\n",p[i].account_no);
                printf("bank account balance:\t%lld\n",p[i].bb);
                printf("-------------------------------------------------
-------------------------------------------------\n");
            }
        }
        return 0;
}

int display_customers(bank p[20],int t)
{
        int i;
        printf("The list of customers are:\n");
        printf("-------------------------------------------------------------
-------------------------------------------\n");
        printf("\t\tS.NO\t\tNAME\t\tACCOUNT NUMBER\t\tBANK BALANCE\n");
        printf("-------------------------------------------------------------
-------------------------------------------\n");
        for(i=0;i<t;i++)
        {
            if(p[i].account_no==0)
            {
                continue;
            }

        printf("\t\t%d.\t\t%s\t\t\t%d\t\t\t%d\n",i+1,p[i].name,p[i].account
_no,p[i].bb);
                printf("-------------------------------------------------
-----------------------------------------------\n");
        }
        return 0;
}

int update_account(bank p[20],int t)
{
        int no_updateac;
        int i;
        printf("Enter bank account number:\t");
        scanf("%d",&no_updateac);
        if(no_updateac!=0)
        {
            for(i=0;i<t;i++)
            {
                if(no_updateac==p[i].account_no)
                {
                    printf("Please enter the details again
carefully:");
                    printf("\nenter name:\t");
                    scanf("%s",p[i].name);          //Don't give spaces
in between your name.
                    printf("\nenter age:\t");
                    scanf("%d",&p[i].age);
```

```c
                        printf("\nenter phone number:\t");
                        scanf("%lld",&p[i].phone_number);
                        printf("\nenter pincode:\t");
                        scanf("%lld",&p[i].pincode);
                        printf("\nenter residence name:\t");
                        scanf("%s",p[i].res_name);
                        printf("\nenter your income per annum:\t");
                        scanf("%lld",&p[i].income);
                        printf("\nYour account has been updated
successfully\n");
                        printf("-----------------------------------------
-----------------------------------------------------------\n");
                        printf("\t\tTHANK YOU\t\t\n");
                        printf("-----------------------------------------
-----------------------------------------------------\n");
                }
            }
        }
        else
        {
            printf("This account is deleted\n");
            printf("-----------------------------------------------------
---------------------------------------------------\n");
        }
        return 0;
}
int   transaction(bank p[20],int t)
{
        int s1;
        long long int amt1;
        long long int amt2;
        int select;
        int i;
        printf("Enter your bank account number:\t");
        scanf("%d",&s1);
        for(i=0;i<t;i++)
        {
            if(s1==0)
            {
                printf("This account has been removed\n\n");
                printf("Enter a valid bank account number\n");
                printf("-----------------------------------------------
-----------------------------------------------------\n");
                printf("\t\tTHANK YOU\t\t\n");
                printf("-----------------------------------------------
-----------------------------------------------------\n");
                break;
            }
            if(s1==p[i].account_no)
            {
                printf("1. Deposit amount\n");
                printf("2. Withdraw amount\n");
                printf("3. Check balance\n");
                printf("Enter your choice:\t");
                scanf("%d",&select);
                if(select==1)
                {
                    printf("Enter the amount you want to deposit:\t");
```

```c
                        scanf("%lld",&amt1);
                        p[i].bb+=amt1;
                        printf("\nCurrent Bank Balance
is:\t%lld\n",p[i].bb);
                        printf("--------------------------------------
----------------------------------------------------------------\n");
                        printf("\t\tTHANK YOU\t\t\n");
                        printf("--------------------------------------
----------------------------------------------------------------\n");
                    }
                else if(select==2)
                {
                        printf("Enter the withdraw amount:\t");
                        scanf("%lld",&amt2);
                        if(p[i].bb < amt2)
                        {
                                printf("Bank balance is insufficient to
withdraw:\n");
                                printf("---------------------------------
-------------------------------------------------------------\n");
                                printf("\t\tTHANK YOU\t\t\n");
                                printf("---------------------------------
-------------------------------------------------------------\n");
                    }
                        else if(p[i].bb >= amt2)
                        {
                                p[i].bb-=amt2;
                                printf("\nCurrent Bank Balance
is:\t%lld\n",p[i].bb);
                                printf("---------------------------------
------------------------------------------------------------\n");
                                printf("\t\tTHANK YOU\t\t\n");
                                printf("---------------------------------
--------------------------------------------------------------\n");}
                    }
                else if(select==3)
                {
                        printf("The current account balance
is:\t%lld\n",p[i].bb);
                        printf("--------------------------------------
--------------------------------------------------------------\n");
                        printf("\t\tTHANK YOU\t\t\n");
                        printf("--------------------------------------
--------------------------------------------------------------\n");

                    }
                }
        }
        return 0;
}
int remove_account(bank p[20],int t)
{
        int a_no,lastcall;
        printf("Enter the bank account number:\n");
        scanf("%d",&a_no);
        printf("Enter 1 if you are sure, else enter 0:\t");
        scanf("%d",&lastcall);
        if(a_no!=0)
```

```c
    {
        if(lastcall==1)
        {
            p[a_no-1].income='\0';
            p[a_no-1].bb='\0';
            p[a_no-1].res_name[0]='\0';
            p[a_no-1].account_no='\0';
            p[a_no-1].pincode='\0';
            p[a_no-1].age='\0';
            p[a_no-1].phone_number='\0';
            p[a_no-1].name[0]='\0';
            printf("The account has been deleted successfully");
            printf("\n-----------------------------------------------------------------------------------------------\n");
            printf("\t\tTHANK YOU\t\t\n");
            printf("-----------------------------------------------------------------------------------------------\n");
        }
        else
        {
            printf("\n-----------------------------------------------------------------------------------------------\n");
            printf("\t\tTHANK YOU\t\t\n");
            printf("-----------------------------------------------------------------------------------------------\n");
        }
        return 0;
    }
    else
    {
        printf("This account is already deleted");
        printf("\n-----------------------------------------------------------------------------------------------\n");
        printf("\t\tTHANK YOU\t\t\n");
        printf("-----------------------------------------------------------------------------------------------\n");
    }
}
```

Screenshots:

1. Main menu

2. Creating a new account (choice=1)

3. Updating mistakes in making account(choice=2)


```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe                                              —    □    ×
--------------------------------------------------------------------
                THANK YOU
--------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------
                MAINMENU
--------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      2
Enter bank account number:      1
Please enter the details again carefully:
enter name:     ramesh

enter age:      18

enter phone number:     7852469875

enter pincode: 500076

enter residence name:    srkresidency

enter your income per annum:    1400000

Your account has been updated successfully
--------------------------------------------------------------------
                THANK YOU
--------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

4. Viewing The Account (choice=3), Here Account number is created automatically (for 1st account, Account Number=1).Here Rs.500/- is minimum account balance.


```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe                                              —    □    ×
Your account has been updated successfully
--------------------------------------------------------------------
                THANK YOU
--------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------
                MAINMENU
--------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      3
enter bank account number:      1
--------------------------------------------------------------------
name:   ramesh
age:    18
phone number:   7852469875
pincode:        500076
residence:      srkresidency
income: 1400000
account number: 1
bank account balance:   500
--------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

5. Checking Total Accounts (choice=5)


```
5.view customers list
6.Removing the existing account

Enter your choice:        3
enter bank account number:        1
--------------------------------------------------------------------------------
name:     ramesh
age:      18
phone number:   7852469875
pincode:        500076
residence:      srkresidency
income: 1400000
account number: 1
bank account balance:   500
--------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------------
              MAINMENU
--------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        5
The list of customers are:
--------------------------------------------------------------------------------
         S.NO           NAME          ACCOUNT NUMBER       BANK BALANCE
--------------------------------------------------------------------------------
         1.            ramesh              1                   500
--------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

6. Adding 1 more account (choice=1)


```
--------------------------------------------------------------------------------
         1.            ramesh              1                   500
--------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------------
              MAINMENU
--------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        1

enter name:      mathur

enter age:       18

enter phone number:      8790883890

enter pincode: 500076

enter residence name:   suryatowers

enter your income per annum:    1150000

Your account has been created successfully
--------------------------------------------------------------------------------
              THANK YOU
--------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------------
              MAINMENU
--------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:
```

7. Checking Total Accounts (choice=5)

```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe                                    -   □   ×

3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        1

enter name:       mathur

enter age:        18

enter phone number:       8790883890

enter pincode: 500076

enter residence name:     suryatowers

enter your income per annum:      1150000

Your account has been created successfully
-----------------------------------------------------------------------
              THANK YOU
-----------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
-----------------------------------------------------------------------
              MAINMENU
-----------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        5
The list of customers are:
-----------------------------------------------------------------------
         S.NO          NAME          ACCOUNT NUMBER       BANK BALANCE
-----------------------------------------------------------------------
         1.            ramesh             1                  500
-----------------------------------------------------------------------
         2.            mathur             2                  500
-----------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

8. Performing Transactions-Depositing on Account 2(choice=4,1)

```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe                                    -   □   ×

enter 1 if you want to continue, else enter 0:  1
-----------------------------------------------------------------------
              MAINMENU
-----------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        5
The list of customers are:
-----------------------------------------------------------------------
         S.NO          NAME          ACCOUNT NUMBER       BANK BALANCE
-----------------------------------------------------------------------
         1.            ramesh             1                  500
-----------------------------------------------------------------------
         2.            mathur             2                  500
-----------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
-----------------------------------------------------------------------
              MAINMENU
-----------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:        4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:        1
Enter the amount you want to deposit:   5000

Current Bank Balance is:        5500
-----------------------------------------------------------------------
              THANK YOU
-----------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

9. Performing Transactions- Withdrawing on Account 2(choice=4,2)


```
-------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:      1
Enter the amount you want to deposit:   5000

Current Bank Balance is:       5500
-------------------------------------------------------------------------------
              THANK YOU
-------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
-------------------------------------------------------------------------------
              MAINMENU
-------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:      2
Enter the withdraw amount:      4000

Current Bank Balance is:       1500
-------------------------------------------------------------------------------
              THANK YOU
-------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

10. Performing Transactions-Checking balance on Account 2 (choice=4,3)


```
-------------------------------------------------------------------------------
              MAINMENU
-------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:      2
Enter the withdraw amount:      4000

Current Bank Balance is:       1500
-------------------------------------------------------------------------------
              THANK YOU
-------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
-------------------------------------------------------------------------------
              MAINMENU
-------------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:      4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:      3
The current account balance is: 1500
-------------------------------------------------------------------------------
              THANK YOU
-------------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

11. Removing an account (choice=6)

```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe
--------------------------------------------------------------------------
            THANK YOU
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------
            MAINMENU
--------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:       4
Enter your bank account number: 2
1. Deposit amount
2. Withdraw amount
3. Check balance
Enter your choice:       3
The current account balance is: 1500
--------------------------------------------------------------------------
            THANK YOU
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------
            MAINMENU
--------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:       6
Enter the bank account number:
1
Enter 1 if you are sure, else enter 0:  1
The account has been deleted successfully
--------------------------------------------------------------------------
            THANK YOU
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

12. Total Accounts after removing (choice=5)

```
C:\Users\vsaim\Desktop\MyCPrograms\a.exe
3. Check balance
Enter your choice:       3
The current account balance is: 1500
--------------------------------------------------------------------------
            THANK YOU
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------
            MAINMENU
--------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:       6
Enter the bank account number:
1
Enter 1 if you are sure, else enter 0:  1
The account has been deleted successfully
--------------------------------------------------------------------------
            THANK YOU
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:  1
--------------------------------------------------------------------------
            MAINMENU
--------------------------------------------------------------------------
1.Add a new account
2.Update an existing account
3.Check the details of existing account
4.Transactions
5.view customers list
6.Removing the existing account

Enter your choice:       5
The list of customers are:
--------------------------------------------------------------------------
        S.NO        NAME        ACCOUNT NUMBER      BANK BALANCE
--------------------------------------------------------------------------
        2.          mathur          2                   1500
--------------------------------------------------------------------------
enter 1 if you want to continue, else enter 0:
```

THANK YOU