

Dhathri:/ /learnprogramo - programming made simple

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
#include<windows.h>
```

```
int i,j;
```

```
int main_exit;
```

```
void menu();
```

```
struct date{
```

```
    int month,day,year;
```

```
};
```

```
struct {
```

```
    char name[60];
```

```
    int acc_no,age;
```

```
    char address[60];
```

```
    char citizenship[15];
```

```
    double phone;
```

```
    char acc_type[10];
```

```
    float amt;
```

```
    struct date dob;
```

```
    struct date deposit;
```

```
    struct date withdraw;
```

```
    }add,upd,check,rem,transaction;
```

```
float interest(float t,float amount,int rate)
```

```
{
```

```
    float SI;
```

```
    SI=(rate*t*amount)/100.0;
```

```
    return (SI);
```

```

}

void fordelay(int j)
{
    int i,k;
    for(i=0;i<j;i++)
        k=i;
}

void new_acc()

{
    int choice;
    FILE *ptr;

    ptr=fopen("record.dat","a+");
    account_no:
    system("cls");
    printf("\t\t\t\xB2\xB2\xB2\ ADD RECORD \xB2\xB2\xB2\xB2");
    printf("\n\nEnter today's date(mm/dd/yyyy):");
    scanf("%d/%d/%d",&add.deposit.month,&add.deposit.day,&add.deposit.year);
    printf("\nEnter the account number:");
    scanf("%d",&check.acc_no);

    while(fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,ad
d.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.d
ay,&add.deposit.year)!=EOF)
    {
        if (check.acc_no==add.acc_no)
        {printf("Account no. already in use!");
        fordelay(1000000000);
        goto account_no;

```

```

    }
}
add.acc_no=check.acc_no;

printf("\nEnter the name:");
scanf("%s",add.name);

printf("\nEnter the date of birth(mm/dd/yyyy):");
scanf("%d/%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);

printf("\nEnter the age:");
scanf("%d",&add.age);

printf("\nEnter the address:");
scanf("%s",add.address);

printf("\nEnter the citizenship number:");
scanf("%s",add.citizenship);

printf("\nEnter the phone number: ");
scanf("%lf",&add.phone);

printf("\nEnter the amount to deposit:$");
scanf("%f",&add.amt);

printf("\nType of account:\n\t#Saving\n\t#Current\n\t#Fixed1(for 1 year)\n\t#Fixed2(for 2
years)\n\t#Fixed3(for 3 years)\n\n\tEnter your choice:");
scanf("%s",add.acc_type);


fprintf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);


fclose(ptr);

printf("\nAccount created successfully!");

add_invalid:

printf("\n\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);

```

```

system("cls");
if (main_exit==1)
    menu();
else if(main_exit==0)
    close();
else
{
    printf("\nInvalid!\a");
    goto add_invalid;
}
}

void view_list()
{
    FILE *view;
    view=fopen("record.dat","r");
    int test=0;
    system("cls");
    printf("\nACC. NO.\tNAME\t\t\tADDRESS\t\t\tPHONE\n");

    while(fscanf(view,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day
,&add.deposit.year)!=EOF)
    {
        printf("\n%6d\t %10s\t\t\t%10s\t\t%.0lf",add.acc_no,add.name,add.address,add.phone);
        test++;
    }

    fclose(view);
    if (test==0)
    {
        system("cls");
        printf("\nNO RECORDS!!\n");
    }
}

```

```

view_list_invalid:

printf("\n\nEnter 1 to go to the main menu and 0 to exit:");

scanf("%d",&main_exit);

system("cls");

if (main_exit==1)

    menu();

else if(main_exit==0)

    close();

else

{

    printf("\nInvalid!\a");

    goto view_list_invalid;

}

}

void edit(void)

{

    int choice,test=0;

    FILE *old,*newrec;

    old=fopen("record.dat","r");

    newrec=fopen("new.dat","w");


    printf("\nEnter the account no. of the customer whose info you want to change:");

    scanf("%d",&upd.acc_no);

    while(fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day
,&add.deposit.year)!=EOF)

    {

        if (add.acc_no==upd.acc_no)

        { test=1;

```

```

        printf("\nWhich information do you want to change?\n1.Address\n2.Phone\n\nEnter your
choice(1 for address and 2 for phone):");

        scanf("%d",&choice);

        system("cls");

        if(choice==1)

            {printf("Enter the new address:");

            scanf("%s",upd.address);

            fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,upd.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

            system("cls");

            printf("Changes saved!");

            }

        else if(choice==2)

            {

                printf("Enter the new phone number:");

                scanf("%lf",&upd.phone);

                fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,upd.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

                system("cls");

                printf("Changes saved!");

                }

            }

        else

            fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

            }

        fclose(old);

```

```
fclose(newrec);  
remove("record.dat");  
rename("new.dat","record.dat");
```

```
if(test!=1)  
{ system("cls");  
  printf("\nRecord not found!!\a\a");  
  edit_invalid:  
  printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");  
  scanf("%d",&main_exit);  
  system("cls");  
  if (main_exit==1)  
  
      menu();  
  else if (main_exit==2)  
      close();  
  else if(main_exit==0)  
      edit();  
  else  
      {printf("\nInvalid!\a");  
        goto edit_invalid;}  
}  
else  
  {printf("\n\n\nEnter 1 to go to the main menu and 0 to exit:");  
    scanf("%d",&main_exit);  
    system("cls");  
    if (main_exit==1)  
        menu();  
    else  
        close();  
  }
```

```
}
```

```
void transact(void)
```

```
{ int choice,test=0;
```

```
FILE *old,*newrec;
```

```
old=fopen("record.dat","r");
```

```
newrec=fopen("new.dat","w");
```

```
printf("Enter the account no. of the customer:");
```

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

```
while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f  
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.  
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day  
,&add.deposit.year)!=EOF)
```

```
{
```

```
if(add.acc_no==transaction.acc_no)
```

```
{ test=1;
```

```
if(strcmpi(add.acc_type,"fixed1")==0 || strcmpi(add.acc_type,"fixed2")==0 || strcmpi(add.acc_type,"fi  
xed3")==0)
```

```
{
```

```
printf("\a\a\a\n\nYOU CANNOT DEPOSIT OR WITHDRAW CASH IN FIXED  
ACCOUNTS!!!!");
```

```
fordelay(1000000000);
```

```
system("cls");
```

```
menu();
```

```
}
```

```
printf("\n\nDo you want to\n1.Deposit\n2.Withdraw?\n\nEnter your choice(1 for deposit  
and 2 for withdraw):");
```

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

```
if (choice==1)
```



```

    {
        printf("Enter the amount you want to deposit:$ ");

        scanf("%f",&transaction.amt);

        add.amt+=transaction.amt;

        fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

        printf("\n\nDeposited successfully!");
    }
else
{
    printf("Enter the amount you want to withdraw:$ ");

    scanf("%f",&transaction.amt);

    add.amt-=transaction.amt;

    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

    printf("\n\nWithdrawn successfully!");
}

}

else
{
    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

}

}

fclose(old);

fclose(newrec);

remove("record.dat");

```

```

rename("new.dat","record.dat");
if(test!=1)
{
    printf("\n\nRecord not found!!");
    transact_invalid:
    printf("\n\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==0)
        transact();
    else if (main_exit==1)
        menu();
    else if (main_exit==2)
        close();
    else
    {
        printf("\nInvalid!");
        goto transact_invalid;
    }

}

else
{
    printf("\nEnter 1 to go to the main menu and 0 to exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==1)
        menu();
    else
        close();
}

```

```

}

void erase(void)
{
    FILE *old,*newrec;

    int test=0;

    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");

    printf("Enter the account no. of the customer you want to delete:");

    scanf("%d",&rem.acc_no);

    while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day
,&add.deposit.year)!=EOF)
    {
        if(add.acc_no!=rem.acc_no)

            fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.addres
s,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.
year);

        else

            {test++;

                printf("\nRecord deleted successfully!\n");

            }
    }

    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat","record.dat");
    if(test==0)
    {
        printf("\nRecord not found!!\a\a\a");
    }
}

```

```

erase_invalid:

printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");

scanf("%d",&main_exit);


    if (main_exit==1)
        menu();
    else if (main_exit==2)
        close();
    else if(main_exit==0)
        erase();
    else
        {printf("\nInvalid!\a");
        goto erase_invalid;}
}

else
    {printf("\nEnter 1 to go to the main menu and 0 to exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==1)
        menu();
    else
        close();
    }

}

void see(void)
{
    FILE *ptr;
    int test=0,rate;
    int choice;

```

```

float time;

float intrst;

ptr=fopen("record.dat","r");

printf("Do you want to check by\n1.Account no\n2.Name\nEnter your choice:");

scanf("%d",&choice);

if (choice==1)

{ printf("Enter the account number:");

scanf("%d",&check.acc_no);


while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day
,&add.deposit.year)!=EOF)

{

if(add.acc_no==check.acc_no)

{ system("cls");

test=1;


printf("\nAccount NO.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s
\nCitizenship No:%s \nPhone number:%.0lf \nType Of Account:%s \nAmount deposited:$ %.2f
\nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,
add.address,add.citizenship,add.phone,

add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);

if(strcmpi(add.acc_type,"fixed1")==0)

{

time=1.0;

rate=9;

intrst=interest(time,add.amt,rate);

printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+1);

}

else if(strcmpi(add.acc_type,"fixed2")==0)

{

```

```

        time=2.0;

        rate=11;

        intrst=interest(time,add.amt,rate);

        printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+2);

    }

    else if(strcmpi(add.acc_type,"fixed3")==0)
    {
        time=3.0;

        rate=13;

        intrst=interest(time,add.amt,rate);

        printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+3);

    }

    else if(strcmpi(add.acc_type,"saving")==0)
    {
        time=(1.0/12.0);

        rate=8;

        intrst=interest(time,add.amt,rate);

        printf("\n\nYou will get $%.2f as interest on %d of every
month",intrst,add.deposit.day);

    }

    else if(strcmpi(add.acc_type,"current")==0)
    {

        printf("\n\nYou will get no interest\n");

    }

```

```

    }

}

}

else if (choice==2)

{ printf("Enter the name:");

scanf("%s",&check.name);

while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,add.
address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add.deposit.day
,&add.deposit.year)!=EOF)

{

if(strcmpi(add.name,check.name)==0)

{ system("cls");

test=1;

printf("\nAccount No.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s
\nCitizenship No:%s \nPhone number:%.0lf \nType Of Account:%s \nAmount deposited:$%.2f
\nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,
add.address,add.citizenship,add.phone,

add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);

if(strcmpi(add.acc_type,"fixed1")==0)

{

time=1.0;

rate=9;

intrst=interest(time,add.amt,rate);

printf("\n\nYou will get $.%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+1);

}

else if(strcmpi(add.acc_type,"fixed2")==0)

{

time=2.0;

rate=11;

intrst=interest(time,add.amt,rate);

```

```
        printf("\n\nYou will get $%.2f as interest on  
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+2);
```

```
    }
```

```
    else if(strcmpi(add.acc_type,"fixed3")==0)
```

```
    {
```

```
        time=3.0;
```

```
        rate=13;
```

```
        intrst=interest(time,add.amt,rate);
```

```
        printf("\n\nYou will get $%.2f as interest on  
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+3);
```

```
    }
```

```
    else if(strcmpi(add.acc_type,"saving")==0)
```

```
    {
```

```
        time=(1.0/12.0);
```

```
        rate=8;
```

```
        intrst=interest(time,add.amt,rate);
```

```
        printf("\n\nYou will get $%.2f as interest on %d of every  
month",intrst,add.deposit.day);
```

```
    }
```

```
    else if(strcmpi(add.acc_type,"current")==0)
```

```
    {
```

```
        printf("\n\nYou will get no interest\n");
```

```
    }
```

```
}
```

```
}
```

```
}
```



```

fclose(ptr);
if(test!=1)
{
    system("cls");
    printf("\nRecord not found!!\a\a");
    see_invalid:
    printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==1)
        menu();
    else if (main_exit==2)
        close();
    else if(main_exit==0)
        see();
    else
    {
        system("cls");
        printf("\nInvalid!\a");
        goto see_invalid;}
}
else
{printf("\nEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);}
if (main_exit==1)
{
    system("cls");
    menu();
}

```

```

else
{

    system("cls");
    close();
}

}

void close(void)
{
    printf("\n\n\nThis C Mini Project is developed by Code With C team!");
}

void menu(void)
{
    int choice;

    system("cls");
    system("color 8");

    printf("\n\n\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");

    printf("\n\n\n\t\t\xB2\xB2\xB2\xB2\xB2\xB2 WELCOME TO THE MAIN MENU
\xB2\xB2\xB2\xB2\xB2\xB2");

    printf("\n\n\t\t1.Create new account\n\t\t2.Update information of existing account\n\t\t3.For
transactions\n\t\t4.Check the details of existing account\n\t\t5.Removing existing
account\n\t\t6.View customer's list\n\t\t7.Exit\n\n\n\n\t\tEnter your choice:");

    scanf("%d",&choice);

    system("cls");

    switch(choice)
    {

        case 1:new_acc();

```

```
break;
case 2:edit();
break;
case 3:transact();
break;
case 4:see();
break;
case 5:erase();
break;
case 6:view_list();
break;
case 7:close();
break;

}
```

```
}
int main()
{
    char pass[20],password[20]="learnprogramo";
    int i=0;
    printf("\n\n\t\tEnter the password to login:");
    scanf("%s",pass);
    /*do
    {
        //if (pass[i]!=13&&pass[i]!=8)
        {
            printf("*");
            pass[i]=getch();
```

```

        i++;
    }
}while (pass[i]!=13);
pass[10]='\0';*/
if (strcmp(pass,password)==0)
    {printf("\n\nPassword Match!\nLOADING");
    for(i=0;i<=6;i++)
    {
        fordelay(100000000);
        printf(".");
    }
        system("cls");
        menu();
    }
else
    { printf("\n\nWrong password!!\a\a\a");
    login_try:
    printf("\nEnter 1 to try again and 0 to exit:");
    scanf("%d",&main_exit);
    if (main_exit==1)
        {

            system("cls");
            main();
        }

    else if (main_exit==0)
        {
            system("cls");
            close();}
else

```

```
        {printf("\nInvalid!");  
        fordelay(1000000000);  
        system("cls");  
        goto login_try;}  
  
    }  
    return 0;  
}
```