REPORT ON

SDF - II MINI PROJECT

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BANKING SYSTEM

The project is made only and only for the use of bank officials.
It gives them an easier way to perform various banking actions such as creating various types of accounts, updating their information's, removing any account and many more.
The project opens with a menu page wherein the bank official is asked to enter the master password to unlock the program. Entering the correct master password advances you to next screen whilst entering the wrong password 3 times forces the program to crash. This is done so as to maintain security of the details of the account holders and keep their precious hard earned money secure. If the correct master password is entered the program advances to the next screen in which a variety of choices are offered such as -
1)Create a new account
2)Update the information of any existing account
3)Remove any existing account
4)Check the details of any existing account
5)Make transaction from a specific account
6)View the list of all account holders
7)Log out
8)Log in logs
9)Exit the program

Integer type choice is taken from the official at the end of the each and every screen, choices are given whether to go back to the main menu or exit the program.

WORKING

After login in we proceed to the main menu area. There are multiple options for us in the menu. If 1 is entered then the program proceeds to create a new account. Various details are asked to be input from the user. the details asked are -
1) Today's date
2) The desired account number of the user (if the desired account number is already owned by another customer then it is asked again)
3) Name of the account holder
4) Date of birth(in dd/mm/yyyy format)
5) Age
6) City in which the account holder is residing
7) Aadhar number of the account holder as part of KYC initiative by the government
8) Mobile number of the account holder (on which the bank can reach him any time during working hours and also for conveying transaction related details)
9) The initial amount customer wishes to deposit in his account
10) The type of account the customer wishes to open 5 choices are offered such as Savings account, Current account and Fixed Deposit account of three types- 1 year, 2 year and 3 year, The official has to
enter this via keyboard).The interest rates given are 8%pa for savings account, 9%pa for fixed deposit of 1 year, 11% pa for fixed deposit of 2 year and 13% pa for fixed deposit of 3 year.
Entering all these details successfully creates the new account.

VOILA!!

If 2 is entered then the program proceeds to update the information of any existing account. The official is asked to enter the account number of the user. If the entered account number exists then choice is given to update the information. Only two information's can be
updated -
1)Address that is the city in which the account holder resides and
2)The phone number of the account holder. Integer type input is taken and the new details is asked after which the new detail is stored.

If 3 is entered then the program proceeds to delete the account of the user. Account number of the holder is asked and as soon as he presses enter account is deleted.

If 4 is entered then the program proceeds to check the various details of any existing account. Choice is given whether to show details by account number or by the name of the account holder after which all the details which were initially asked at the time of account opening. It also displays the interest the holder will get every month in case of savings account and in case of fixed deposit account, it will display the total interest the holder will get at end of his time period.

If 5 is entered then the program proceeds to make transactions from the account.It ask transactionfor two ways of transaction,cash and digital mode. Again account number is asked after which choices are given whether to deposit or to withdraw from the account. Later on, balance in the account is accordingly updated. In case of fixed deposit account, transactions will not be allowed and program will redirect to the main menu page.

If 6 is entered then the program proceeds to display the list of all account holders along with some of their information such as account number, name of account holder, city in which the account holder resides, active mobile phone number of the account holder and the current available balance in the account.
If 7 is entered then the program will log out the bank official and produce the main menu page on the screen.

If 8 is entered then the program will show all the log in logs.

If 9 is entered then the program will terminate after showing a thank you page.

WORK DIVISION-

1)Lalit Kumar - Functions of transaction from an account and viewing the details of a specific account along with the log-in screen.
2)Piyush Bhargav - Functions of updating the information of any account and creation of a new account and some part of Transaction function
3)Avi Mittal - Functions of viewing the list of all the account holders and removal of specific account along with the menu function and exit process.

DATA STRUCTURES USED-
1)Arrays
2)Stacks

CODE

```
#include <stdio.h>
#include <stdlib.h>
#include <windows.h>
#include <time.h>
#include<conio.h>
#define MAX 3

void Login_Logs();
void menu();
void create();
void update();
void transact();
void view_det();
void del();
void all_list();
void close();
void choose();
void delay(int);
int i,j;
char mex;
struct date{
	int mm,dd,yy;
	};
struct acct{

	char name[60];
	int acc_no,age;
	char address[60];
	char addhar[15];
	double mobile;
	char acc_type[10];
	float amt;
	char password[8];
	struct date dob,track;

	}user,chng,check,rem,tran,transfer1,transfer2;


	char user_log[MAX][10], data[10];
	int top=-1;
	int push(char user_log[MAX][10], int *top, char data[10])
{
	if(*top == MAX -1)
		return(-1);
	else
	{
```

```
            *top = *top + 1;
            strcpy(user_log[*top], data);
            return(1);
        }
}

int main()
{system("color F2");
        char empnmae[10];
        char pass[10],password[10]="12345";
        int i=0;
        login:
        printf("\t\t\t\t|=============================================================|\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|                          PAL BANK                           |\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|=============================================================|\n\n\n");
        printf("\t\t\t\t                          | OWNERS |\n\n");
        printf("\t\t\t\t |-------------|        |---------------|        |-------------|\n");
        printf("\t\t\t\t |      PIYUSH       |        |          LALIT          |        |          AVI          |\n");
        printf("\t\t\t\t |-------------|        |---------------|        |-------------|\n");

       printf("\n\n\n\t\tEnter Username: ");
        scanf("%s",empnmae);
        if(strcmpi(empnmae,"lalit")==0 || strcmpi(empnmae,"avi")==0 || strcmpi(empnmae,"piyush")==0)
        {
            push(user_log,    &top, empnmae);
        printf("\n\n\t\tEnter the password to login:");
        scanf("%s",pass);
        if (strcmp(pass,password)==0)
            {system("cls");
            printf("\n\n\n\n\n\t\t\t\t\t");
            char a=177,b=178;
            printf("Loading.....");
            printf("\n\n");
            printf("\t\t\t\t\t");
            for(i=0;i<30;i++)
            {
                printf("%c",a);
            }
            printf("\r");
            printf("\t\t\t\t\t");
            for(i=0;i<30;i++)
            {
                delay(39999977);
                printf("%c",b);

            }
```

```
                    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",&mex);
                if (mex==1)
                        {

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

                else if (mex==0)
                        {
                        system("cls");
                        close();}
                else
                        {printf("\nInvalid Choice!");
                        delay(1000000000);
                        system("cls");
                        goto login_try;}

            }
        }
        else
        {
            printf("\t\t\t\tInvalid Username\a\a\a");
            delay(1000000000);
            system("cls");
            goto login;
       }
             return 0;
}
void Login_Logs()
{printf("\n\n\t\t\t\t\tPeople who logined are:\n");
        int j;
        for(j=0;j<=top;j++)
        {
              printf("\n\t\t\t\t\t%d. %s",j+1,user_log[j]);
        }
        printf("\npress 1 to go to main menu, 0 to exit");
        char ch=getche();
        switch(ch)
        {
        case '1': menu();
        break;
```

```
        case '0':
             system("cls");
       close();
        break;
       }

}

void delay(int j)
{      int i;
        for(i=0;i<j;i++)
        {

       }

}

void create()

{
        int choice;
        FILE *ptr;
        ptr=fopen("record.dat","a+");
        start:
        system("cls");
          printf("\t\t\t\t|=============================================================|\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|                                PAL BANK                     |\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|=============================================================|\n");

        printf("\n\n\n\t\t\t\t\t\t\t\t\t           ADD RECORD    \n\n\n");
      time_t now = time(NULL);
      struct tm *t = localtime(&now);
      user.track.mm=t->tm_mon+1;
      user.track.dd=t->tm_mday;
      user.track.yy=t->tm_year+1900;
      printf("\ntoday's date: %d-%d-%d",t->tm_mday,t->tm_mon+1,t->tm_year+1900);
        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",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.a
ddhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
        {
              if (check.acc_no==user.acc_no)
                    {
             printf("\n\nAccount no. already in use!\n\n");
                        delay(1000000000);
                           goto start;
```

```
                    }
        }
        user.acc_no=check.acc_no;
                printf("\nEnter the name:");
        scanf("%s",user.name);
        printf("\nEnter the date of birth(dd-mm-yyyy):");
        scanf("%d-%d-%d",&user.dob.dd,&user.dob.mm,&user.dob.yy);
        user.age=(user.track.yy)-(user.dob.yy);
        printf("\nYour age is: %d",user.age);
        printf("\nEnter the CITY:");
        scanf("%s",user.address);
        printf("\nEnter the addhar number:");
        scanf("%s",user.addhar);
        printf("\nEnter the mobile number: ");
        scanf("%lf",&user.mobile);
        printf("\nEnter the amount to deposit:Rs. ");
        scanf("%f",&user.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",user.acc_type);

                fprintf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);



        fclose(ptr);
        printf("\nAccount created successfully!");
        create_error:
       printf("\npress 1 to go to main menu, 0 to exit");
        char ch=getche();
        system("cls");
        switch(ch)
        {
        case '1': menu();
        break;
        case '0':
              system("cls");
       close();
        break;
        default : goto create_error;
        break;
       }

}
void all_list()
{
        FILE *view;
        view=fopen("record.dat","r");
```

```
        int flag=0;
        system("cls");
        printf("\t\t\t\t|=============================================================|\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|                          PAL BANK                           |\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|=============================================================|\n\n");

        printf("\nACC. NO.\t\tNAME\t\t\tADDRESS\t\t\tMOBILE\t\t\tBALANCE\n");

        while(fscanf(view,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
            {
                printf("\n%6d\t\t %10s\t\t
%10s\t\t\t%.0lf\t\t\t%.2f",user.acc_no,user.name,user.address,user.mobile,user.amt);
                flag++;
            }

        fclose(view);
        if (flag==0)
              {     system("cls");
                printf("\nNO DETAIL FOUND. CREATE ACCOUNT FIRST!!\n");}

        all_list_invalid:
          printf("\nPress 1 to go to main menu, 0 to exit");
        char ch=getche();
        system("cls");
        switch(ch)
        {
        case '1': menu();
        break;
        case '0':
             system("cls");
       close();
        break;
        default : goto all_list_invalid;
        break;
       }
}


void update(void)
{ printf("\t\t\t\t|=============================================================|\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|                          PAL BANK                           |\n");
        printf("\t\t\t\t|                                                             |\n");
        printf("\t\t\t\t|=============================================================|\n\n\n");
```

```
	int choice,flag=0;
	FILE *old,*newrec;
	old=fopen("record.dat","r");
	newrec=fopen("new.dat","w");

	printf("\nEnter the account no. of the customer:    ");
	scanf("%d",&chng.acc_no);
	while(fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
	{
		if (user.acc_no==chng.acc_no)
		{	flag=1;
			printf("\nWhich information do you want to change?\n1.Address\n2.Mobile\n\nEnter your
choice(1 for address and 2 for mobile):");
			scanf("%d",&choice);
			system("cls");
			if(choice==1)
				{printf("Enter the new address:");
				scanf("%s",chng.address);
				fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,chng.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
				system("cls");
				printf("Address Saved!");
				}
			else if(choice==2)
				{
					printf("Enter the new mobile number:");
				scanf("%lf",&chng.mobile);
				fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,c
hng.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
				system("cls");
				printf("Mobile number saved!");
				}

		}
		else
			fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
	}
	fclose(old);
	fclose(newrec);
	remove("record.dat");
	rename("new.dat","record.dat");

if(flag!=1)
```

```
        {     system("cls");
              printf("\nRecord not found!!\a\a\a");
              update_invalid:
                 printf("\npress 1 to go to main menu, 0 to exit, 2 to try again");
    char ch=getche();
    system("cls");
    switch(ch)
    {
    case '1': menu();
              break;
    case '0':
         system("cls");
          close();
           break;
    case '2':
              update();
              break;
    default : goto update_invalid;
    break;
   }
         }
    else
    {startss:
         printf("\npress 1 to go to main menu, 0 to exit");
    char ch=getche();
    system("cls");
    switch(ch)
    {
    case '1': menu();
    break;
    case '0':
         system("cls");
   close();
    break;
    default : goto startss;
    break;
   }
         }
}

void txn(void)
{    printf("\t\t\t\t|=========================================================|\n");
     printf("\t\t\t\t|                                                         |\n");
     printf("\t\t\t\t|                        PAL BANK                         |\n");
     printf("\t\t\t\t|                                                         |\n");
     printf("\t\t\t\t|=========================================================|\n\n\n");

    int choice,test=0;
     FILE *old,*newrec,*tra;
```

```
        old=fopen("record.dat","r");
        newrec=fopen("new.dat","w");
        int choice1,count=0;
        printf("What do you prefer:\n\n1.Cash transaction\n2.Account transfer\n\nEnter your choice: ");
        scanf("%d",&choice1);
        if(choice1==1)
        {printf("Enter the account no. of the customer:");
        scanf("%d",&tran.acc_no);
            while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
            {

                    if(user.acc_no==tran.acc_no)
                    {     test=1;

if(strcmpi(user.acc_type,"fixed1")==0||strcmpi(user.acc_type,"fixed2")==0||strcmpi(user.acc_type,"fixed3")==0)
                            {
                                  printf("\a\a\a\n\nYOU CANNOT TRANSACT CASH IN FIXED TYPE ACCOUNTS!!!!!");
                                 printf("Press any key");
                              getch();
                                 system("cls");
                                   menu();
                            }
                              printf("\n\nDo you want to\n1.Deposit\n2.Withdraw\n\nEnter choice:");
                                scanf("%d",&choice);
                               if (choice==1)
                               {
                                     printf("Enter the amount to deposit:Rs ");
                                    scanf("%f",&tran.amt);
                                        user.amt+=tran.amt;
                                       fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                                         printf("\n\nsuccess!");
                               }
                              else if(choice==2)
                              {
                                    printf("Enter the amount to withdraw:Rs ");
                                        scanf("%f",&tran.amt);
                                       if(user.amt>tran.amt)
                                      {
                                          user.amt-=tran.amt;
                                          fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                                          printf("\n\n success!");
                                    }
                                    else
```

```
                                {
                                        system("cls");
                                        printf("\n\n\n\t\t\t\t\t        WARNING!\a\aCannot Withdraw amount more than
Balance\n");
                                        printf("press any key to try again");
                                        getch();
                                        system("cls");
                                        txn();
                                }
                          }
                  }

                    else
                    {
                         fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                    }
            }
       }
        else if(choice1==2)
         {
              test=1;

        if(strcmpi(user.acc_type,"fixed1")==0||strcmpi(user.acc_type,"fixed2")==0||strcmpi(user.acc_type,"fixed3")
==0)
                          {
                                printf("\a\a\a\n\nYOU CANNOT TRANSACT CASH IN FIXED TYPE ACCOUNTS!!!!!");
                               printf("Press any key");
                            getch();
                               system("cls");
                                 menu();
                          }
              firse:
               printf("Enter your account number:");
               scanf("%d",&transfer1.acc_no);
               printf("Enter recepient account number:");
               scanf("%d",&transfer2.acc_no);

               while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
               {
                    if(user.acc_no==transfer1.acc_no || user.acc_no==transfer2.acc_no)
                    {
                         count++;
                    }
              }
              if(count==2)
```

```
        {
            fclose(old);
            old=fopen("record.dat","r");
            printf("Enter the amount you want to transfer:");
            scanf("%f",&transfer1.amt);
            while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
            {
                if(user.acc_no==transfer1.acc_no)
                {//printf("fsfgs");
                    user.amt=user.amt - transfer1.amt;
                    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                }
                else if(user.acc_no==transfer2.acc_no)
                {//printf("fsfgs");
                    user.amt=user.amt + transfer1.amt;
                    printf("\n\t\t\tTransfer successful.\n\n");
                    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                }
                else
                {
                    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);
                }
            }

        }
        else
        {
            printf("\n\nEnter valid account numbers.\nPress any key to try again:");
            getch();
            system("cls");
            goto firse;
        }
     }
    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat","record.dat");
    if(test!=1)
    {
        printf("\n\nNO RECORD!!");
        transact_invalid:
```

```
          printf("\npress 1 to go to main menu, 0 to exit, 2 to try again");
       char ch=getche();
       system("cls");
       switch(ch)
       {
       case '1': menu();
       break;
       case '0':
            system("cls");
      close();
       break;
       case '2': txn();
       break;
       default : goto transact_invalid;
       break;
      }

     }
     else
     {
          startsss:
            printf("\npress 1 to go to main menu, 0 to exit");
       char ch=getche();
       system("cls");
       switch(ch)
       {
       case '1': menu();
       break;
       case '0':
            system("cls");
      close();
       break;
       default : goto startsss;
       break;
      }
     }

}
void del(void)
{
       printf("\t\t\t\t|=========================================================|\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|                          PAL BANK                       |\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|=========================================================|\n");

       FILE *old,*newrec;
       int test=0;
       old=fopen("record.dat","r");
```

```
       newrec=fopen("new.dat","w");
       printf("\n\n\n\n\n\n\n \t\t\tEnter the account no. of the account 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",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
     {
            if(user.acc_no!=rem.acc_no)
                  fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.addhar,u
ser.mobile,user.acc_type,user.amt,user.track.mm,user.track.dd,user.track.yy);

            else
                  {test++;
                  system("cls");
                  system("color FC");

                  printf("\n\n\n\n\n\n\t\t\t\t     Account deleted successfully!\n");
                  }
     }
     fclose(old);
     fclose(newrec);
     remove("record.dat");
     rename("new.dat","record.dat");
     if(test==0)
            {
                  printf("\nNo account by that number!!\a\a\a");
                  del_invalid:
           printf("\npress 1 to go to main menu, 0 to exit, 2 to try again");
       char ch=getche();
       system("cls");
       switch(ch)
       {
       case '1': menu();
       break;
       case '0':
            system("cls");
      close();
       break;
       case '2':del();
       break;
       default : goto del_invalid;
       break;
      }
            }
       else
            {startssss:
           printf("\npress 1 to go to main menu, 0 to exit");
       char ch=getche();
```

```
        system("cls");
        switch(ch)
        {
        case '1': menu();
        break;
        case '0':
              system("cls");
               close();
                break;
        default : goto startssss;
        break;
       }

}}

void view_det(void)
{ printf("\t\t\t\t|=========================================================|\n");
        printf("\t\t\t\t|                                                         |\n");
        printf("\t\t\t\t|                        PAL BANK                         |\n");
        printf("\t\t\t\t|                                                         |\n");
        printf("\t\t\t\t|=========================================================|\n\n\n");

        FILE *ptr;
        int test=0,rate;
        int choice;
        float period;
        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",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
                {
                        if(user.acc_no==check.acc_no)
                        {       system("cls");
                                test=1;

printf("\t\t\t\t|=========================================================|\n");
        printf("\t\t\t\t|                                                         |\n");
        printf("\t\t\t\t|                        PAL BANK                         |\n");
        printf("\t\t\t\t|                                                         |\n");
        printf("\t\t\t\t|=========================================================|\n");
```

```
                        printf("\nAccount NO.:%d\nName:%s \nDOB:%d-%d-%d \nAge:%d \nAddress:%s \naddhar
No:%s \nmobile number:%.0lf \nType Of Account:%s \nAmount deposited:Rs %.2f \nDate Of
Deposit:%d-%d-%d\n",user.acc_no,user.name,user.dob.mm,user.dob.dd,user.dob.yy,user.age,user.address,user.a
ddhar,user.mobile,
                        user.acc_type,user.amt,user.track.dd,user.track.mm,user.track.yy);
                        if(strcmpi(user.acc_type,"fixed1")==0)
                              {
                                   intrst=(9*1*user.amt)/100.0;
                                    printf("\n\ncostemer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.mm,user.track.dd,user.track.yy+1);
                              }
                        else if(strcmpi(user.acc_type,"fixed2")==0)
                              {
                                    intrst=(11*2*user.amt)/100.0;
                                    printf("\n\ncostemer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.mm,user.track.dd,user.track.yy+2);

                              }
                        else if(strcmpi(user.acc_type,"fixed3")==0)
                              {
                                    intrst=(13*3*user.amt)/100.0;
                                    printf("\n\ncostemer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.mm,user.track.dd,user.track.yy+3);

                              }
                         else if(strcmpi(user.acc_type,"saving")==0)
                              {
                                    intrst=((8*1)/100.0*user.amt)/12;
                                    printf("\n\ncostemer will be given Rs.%.2f    interest on date %d every
month\nHappy banking",intrst,user.track.dd);

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

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

                               }

                  }
            }
      }
      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",&user.acc_no,user.name,&user.dob.mm,&user.dob.dd,&user.dob.yy,&user.age,user.address,user.ad
dhar,&user.mobile,user.acc_type,&user.amt,&user.track.mm,&user.track.dd,&user.track.yy)!=EOF)
            {
```

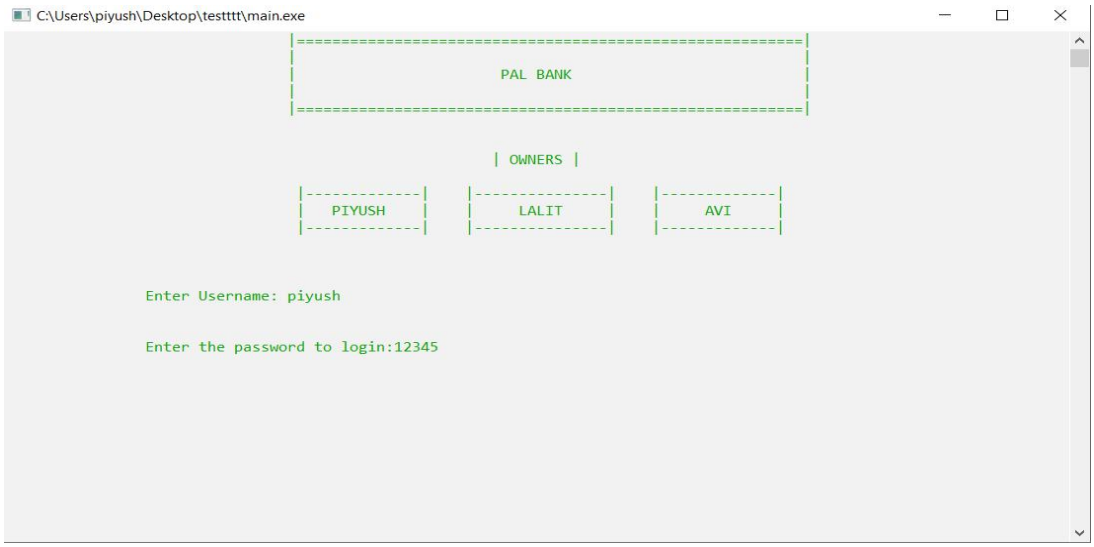
```
                if(strcmpi(user.name,check.name)==0)
                {      system("cls");
                  printf("\t\t\t\t|=========================================================|\n");
                  printf("\t\t\t\t|                                                         |\n");
                  printf("\t\t\t\t|                          PAL BANK                       |\n");
                  printf("\t\t\t\t|                                                         |\n");
                  printf("\t\t\t\t|=========================================================|\n");

                      test=1;
                      printf("\nAccount No.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d \nAddress:%s \naddhar
No:%s \nmobile number:%.0lf \nType Of Account:%s \nAmount deposited:Rs%.2f \nDate Of
Deposit:%d/%d/%d\n\n",user.acc_no,user.name,user.dob.dd,user.dob.mm,user.dob.yy,user.age,user.address,use
r.addhar,user.mobile,
                      user.acc_type,user.amt,user.track.dd,user.track.mm,user.track.yy);
                      if(strcmpi(user.acc_type,"fixed1")==0)
                            {
                                  intrst=(9*1*user.amt)/100.0;
                                  printf("\n\ncostemer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.dd,user.track.mm,user.track.yy+1);
                            }
                      else if(strcmpi(user.acc_type,"fixed2")==0)
                            {
                                  intrst=(11*3*user.amt)/100.0;
                                  printf("\n\ncostumer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.dd,user.track.mm,user.track.yy+2);

                            }
                      else if(strcmpi(user.acc_type,"fixed3")==0)
                            {
                                  intrst=(13*3*user.amt)/100.0;
                                  printf("\n\ncostumer will be given Rs.%.2f    interest on date    %d-%d-%d\nHappy
banking",intrst,user.track.dd,user.track.mm,user.track.yy+3);

                            }
                       else if(strcmpi(user.acc_type,"saving")==0)
                            {
                                  intrst=(8*(1/12)*user.amt)/100.0;
                                  printf("\n\ncostumer will recieve Rs.%.2f    interest on %dth every month\nHappy
banking",intrst,user.track.dd);

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

                                  printf("\n\nNO interest for a current account\a\a");

                             }

                }
```

```
        }
    }


    fclose(ptr);
      if(test!=1)
            {      system("cls");
    printf("\t\t\t\t|============================================================|\n");
    printf("\t\t\t\t|                                                            |\n");
    printf("\t\t\t\t|                          PAL BANK                          |\n");
    printf("\t\t\t\t|                                                            |\n");
    printf("\t\t\t\t|============================================================|\n");

                  printf("\nRecord not found!!\a\a\a");
                  view_det_invalid:
          printf("\npress 1 to go to main menu, 0 to exit,2 to try again");
     char ch=getche();
     system("cls");
     switch(ch)
     {
     case '1': menu();
     break;
     case '0':
          system("cls");
    close();
     break;
     case '2':
              view_det();
                break;
     default : goto view_det_invalid;
     break;
    }
            }
     else
            {startsks:
          printf("\npress 1 to go to main menu, 0 to exit");
     char ch=getche();
     system("cls");
     switch(ch)
     {
     case '1': menu();
     break;
     case '0':
          system("cls");
    close();
     break;
     default : goto startsks;
     break;
    }
```

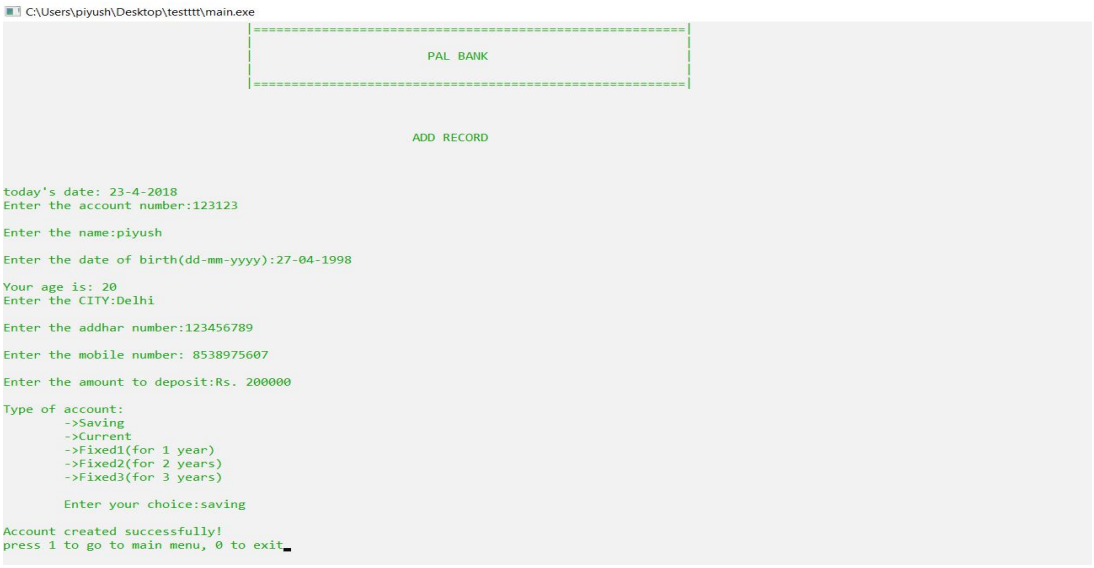
```
}
}

void close(void)
  {
// system("color 5");
       printf("\t\t\t\t|=========================================================|\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|                          PAL BANK                       |\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|=========================================================|\n");

       printf("\n\n\n\n\n\n\t\t\t\t\t\t|This Project is developed    by|\n\n");
       printf("\t\t|=========================|      |=========================|
|=========================|\n");
       printf("\t\t|          AVI MITTAL          |      |          LALIT KUMAR          |       |          PIYUSH
BHARGAV          |\n");
       printf("\t\t|=========================|      |=========================|
|=========================|\n\n\n\n");
       printf("\t\t\t\t\t\t|=========================|\n");
       printf("\t\t\t\t\t\t|          THANK YOU!          |\n" );
       printf("\t\t\t\t\t\t|=========================|\n");

       }


void menu(void)
{      int choice;
       system("cls");
       system("color F2");
       //system("color 9");
       printf("\t\t\t\t|=========================================================|\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|                          PAL BANK                       |\n");
       printf("\t\t\t\t|                                                         |\n");
       printf("\t\t\t\t|=========================================================|\n");
       printf("\n\n\n\t\t\t\t\t\t WELCOME TO THE MAIN MENU ");
       printf("\n\n\n\n\n\t\t\t\t1.Create new Account account\n\t\t\t\t2.Update account
information\n\t\t\t\t3.Deleate Account\n\t\t\t\t4.Check account Details\n\t\t\t\t5.Transaction\n\t\t\t\t6.View
Account list\n\t\t\t\t7.Logout\n\t\t\t\t8.Login logs\n\t\t\t\t9.Exit\n\n\n\n\n\t\t Enter your choice:");
       scanf("%d",&choice);

       system("cls");
       switch(choice)
       {
              case 1:create();
              break;
              case 2:update();
              break;
```

```
        case 3:del();
        break;
        case 4:view_det();
        break;
        case 5:txn();
        break;
        case 6:all_list();
        break;
        case 7:main();
        break;
        case 8:Login_Logs();
        break;
        case 9:close();
        break;
    }
    }
```

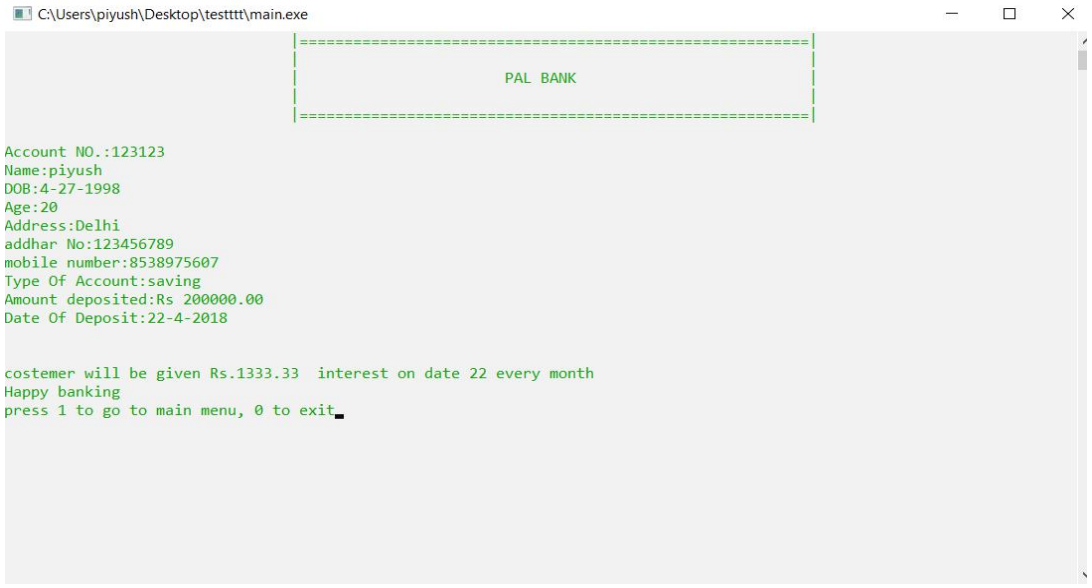
SNAP SHOTS


C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
| OWNERS |
PIYUSH
LALIT
AVI
Enter Username: piyush
Enter the password to login:12345

C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
WELCOME TO THE MAIN MENU
1.Create new Account account
2.Update account information
3.Deleate Account
4.Check account Details
5.Transaction
6.View Account list
7.Logout
8.Login logs
9.Exit
Enter your choice:

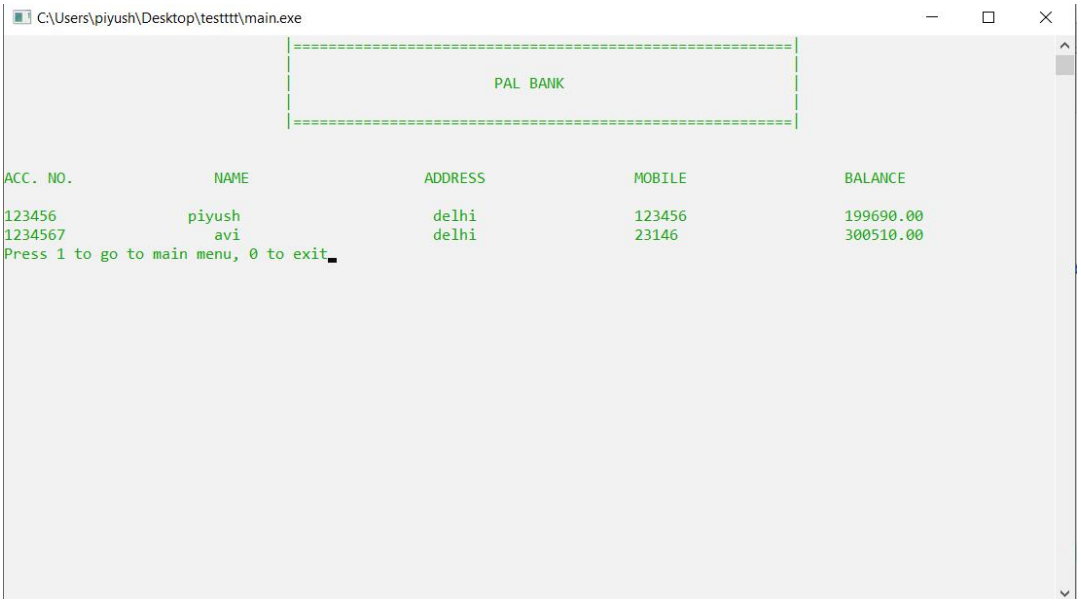

C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
ADD RECORD
today's date: 23-4-2018
Enter the account number:123123
Enter the name:piyush
Enter the date of birth(dd-mm-yyyy):27-04-1998
Your age is: 20
Enter the CITY:Delhi
Enter the addhar number:123456789
Enter the mobile number: 8538975607
Enter the amount to deposit:Rs. 200000
Type of account:
->Saving
->Current
->Fixed1(for 1 year)
->Fixed2(for 2 years)
->Fixed3(for 3 years)
Enter your choice:saving
Account created successfully!
press 1 to go to main menu, 0 to exit

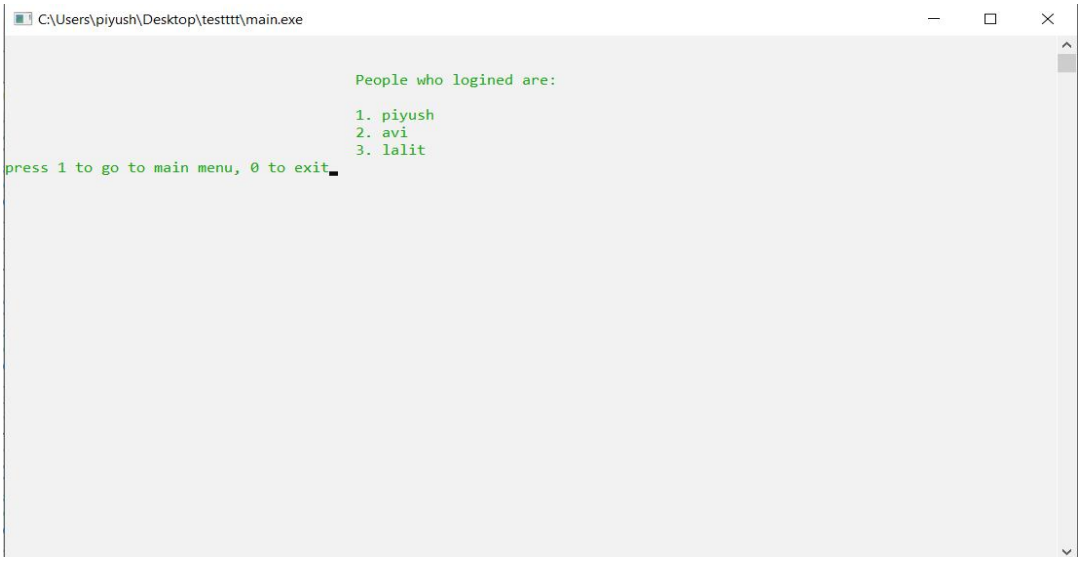
C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
Do you want to check by
1.Account no
2.Name
Enter your choice:1
Enter the account number:123123

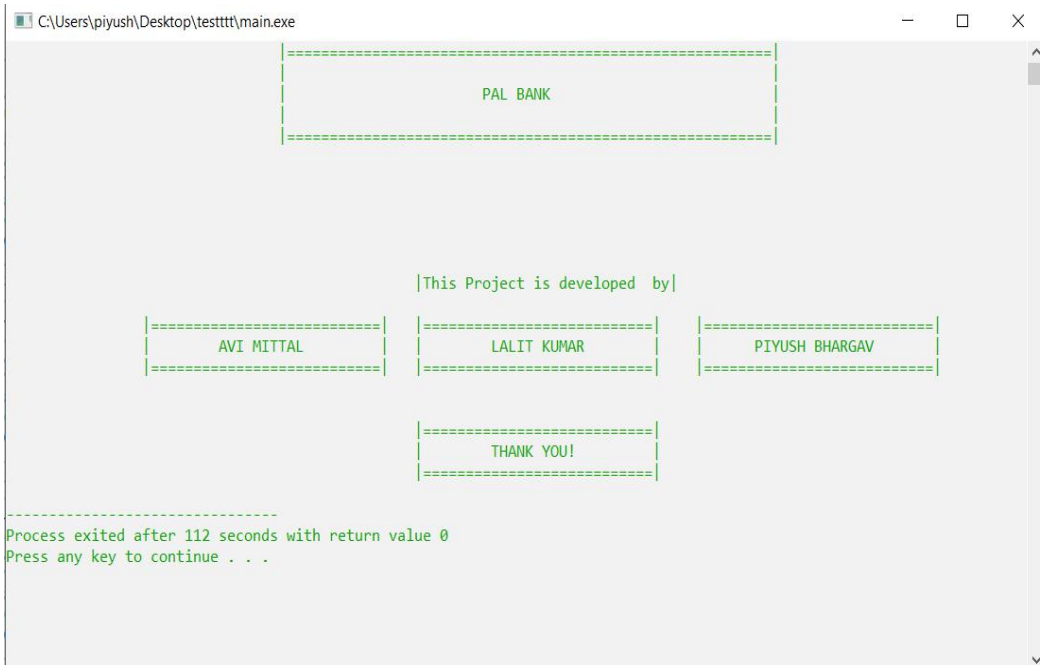

C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
Account NO.:123123
Name:piyush
DOB:4-27-1998
Age:20
Address:Delhi
addhar No:123456789
mobile number:8538975607
Type Of Account:saving
Amount deposited:Rs 200000.00
Date Of Deposit:22-4-2018
costemer will be given Rs.1333.33 interest on date 22 every month
Happy banking
press 1 to go to main menu, 0 to exit

C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
Enter the account no. of the account you want to delete: 123123

C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
What do you prefer:
1.Cash transaction
2.Account transfer
Enter your choice:


C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
ACC. NO. NAME ADDRESS MOBILE BALANCE
123456 piyush delhi 123456 199690.00
1234567 avi delhi 23146 300510.00
Press 1 to go to main menu, 0 to exit


C:\Users\piyush\Desktop\testttt\main.exe
People who logined are:
1. piyush
2. avi
3. lalit
press 1 to go to main menu, 0 to exit


C:\Users\piyush\Desktop\testttt\main.exe
PAL BANK
This Project is developed by
AVI MITTAL
LALIT KUMAR
PIYUSH BHARGAV
THANK YOU!
Process exited after 112 seconds with return value 0
Press any key to continue . . .