

# BANKER'S AND CUSTOMER'S BANK MANGEMENT SYSTEM A MINI-PROJECT REPORT

Submitted By:

KIRAN.M-ENG17CS0111

K DEVA BHARGAV-ENG17CS0107

HEMANTH R SHANKAR- ENG17CS0091

HIMA KEERTHI J-ENG17CS0092

JEEVAN N -ENG17CS0099

of

#### **BACHELOR OF TECHNOLOGY**

in

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

at

# DAYANANDA SAGAR UNIVERSITY SCHOOL OF ENGINEERING, BANGALORE-560068

**3rd SEMESTER** 

(Course Code: 16CS

Data structures lab

## DAYANANDA SAGAR UNIVERSITY



#### **CERTIFICATE**

This is to certify that the Algorithm Design and Analysis Laboratory Mini-Project report entitled "BANKER'S AND CUSTOMER'S BANK MANGEMENT SYSTEM" being submitted by

KIRAN.M-ENG17CS0111, K DEVA BHARGAV-ENG17CS0107, HEMANTH R SHANKAR–ENG17CS0091, HIMA KEERTHI J-ENG17CS0092 & JEEVAN N –ENG17CS0099 to Department of Computer Science and Engineering, School of Engineering, Dayananda Sagar University, Bangalore, for the 4<sup>th</sup> semester B.Tech C.S.E of this university during the academic year 2017-2018.

Date:	
	Signature of the Faculty in Charge
Sign	ature of the Chairman

#### **ACKNOWLEDGEMENT**

We are pleased to acknowledge **Prof. Arpitha M N** for her invaluable guidance, support, motivation and patience during the course of this mini- project work.

We extend our sincere thanks to our **Chairman Dr. Banga M.K** who continuously helped us throughout the project and without his guidance, this project would have been an uphill task.

We have received a great deal of guidance and co-operation from our friends and we wish to thank one and all that have directly or indirectly helped us in the successful completion of this mini-project work.

KIRAN.M-ENG17CS0111

K DEVA BHARGAV-ENG17CS0107

HEMANTH R SHANKAR- ENG17CS0091

HIMA KEERTHI J-ENG17CS0092

JEEVAN N -ENG17CS0099

# TABLE OF CONTENTS

SL.NO	TITLE	Page No
	Cover Page	1
	Certificate	2
	Acknowledgement	3
	Contents	4
1.	Problem Statement	5
2.	Abstract	6
3.	Introduction	7
4.	S/W & H/W Requirements	8
5.	Code	9
6.	Expected Output Analysis	35
7.	Conclusion	41
8.	References	42

### 1. PROBLEM STATEMENT

The bank management system is an application for maintaining a person's account in a bank. The system provides the access to the customer to create an account, deposit/withdraw/view balance(the cash from his account), also to view reports of all account present and can also update any his personal information like phone number, address.

#### 2. ABSTRACT

As we are beginners and have no practical experience in the field of software development and moreover the Banking System is very wide. So, we limit the scope if our project by computerizing the following fields of the Banking System:-

- > Account Opening
- Daily Transactions
- > Account Maintenance
- > Search:-
  - 1. Savings Account
  - 2. Current Account
  - 3. Fixed Deposit Account
    - ➤ 1 Year
    - ➤ 2 Years
    - > 3 Years

#### 3. INTRODUCTION

During the past several decades personal function has been transformed from a relatively obscure record keeping staff to central and top level management function. There are many factors that have influenced this transformation like technological advances, professionalism, and general recognition of human beings as most important resources.

This project intends to introduce more user friendliness in the various activities such as record updation, maintenance, and searching. The searching of record has been made quite simple as all the details of the customer can be obtained by simply keying in the identification or account number of that customer. Similarly, record maintenance and updation can also be accomplished by using the account number with all the details being automatically generated. These details are also being promptly automatically updated in the master file thus keeping the record absolutely up-to-date.

The entire information has maintained in the FILES and whoever wants to retrieve can't retrieve, only authorization user can retrieve the necessary information which can be easily be accessible from the file.

# 4. SOFTWARE AND HARDWARE REQUIREMENTS

Software requirements:-

• Ubuntu (16.04)

Hardware requirements:-

- PC or Laptop
  - > RAM min- 512 MB
  - ➤ Hard disk space-500MB

## 5. CODE

```
#include<stdio.h>
#include<stdlib.h>
int i, j, a;
int main exit;
void menu();
struct date{
    int month, day, year;
    };
struct {
    char name[60];
    int password;
    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,temp;
```

```
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:
   printf("\n\nEnter today's date(mm/dd/yyyy):");
scanf("%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 %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n", &add.acc no, &add.password, 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.ye
ar) !=EOF)
    {
        if (check.acc no==add.acc no)
            {printf("Account no. already in use!");
            fordelay(10);
                goto account no;
            }
    }
    add.acc no=check.acc no;
    printf("\nEnter a four digit pin:\t");
    scanf("%d", &add.password);
    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 pan 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\t1.Saving\n\t2.Current\n\t3.Fixed1(for 1
year) \n\t4.Fixed2(for 2 years) \n\t5.Fixed3(for 3 years) \n\tEnter
your choice:");
    scanf("%s",add.acc type);
        fprintf(ptr,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
    fclose(ptr);
    printf("\nAccount created successfully!");
    add invalid:
    printf("\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
    scanf("%d", &main exit);
    if (main exit==1)
        sel();
    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;
    printf("\nACC. NO.\tNAME\t\t\tADDRESS\t\t\tPHONE\n");
    while(fscanf(view, "%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.age, add.address, add.citizenship, &add.phone, add.a
cc type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
! = EOF
       {
           printf("\n%6d\t
%10s\t\t\t%10s\t\t\.01f",add.acc no,add.name,add.address,add.phone);
           test++;
       }
    fclose (view);
    if (test==0)
        {
            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);
        if (main exit==1)
```

```
sel();
        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);
    printf("\nEnter the pin:\t");
    scanf("%d", &upd.password);
    while(fscanf(old,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.aqe, add.address, add.citizenship, &add.phone, add.a
cc_type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
) !=EOF)
    {
        if (add.acc no==upd.acc no && add.password==upd.password)
        { 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);
            if(choice==1)
                {printf("Enter the new address:");
                scanf("%s",upd.address);
                fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,upd.address,add.citizenship,add.phone,add.acc ty
pe,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
                printf("Changes saved!");
                }
            else if(choice==2)
                {
                    printf("Enter the new phone number:");
                scanf("%lf", &upd.phone);
                fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,upd.phone,add.acc ty
pe,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
                printf("Changes saved!");
                }
        }
        else
```

```
fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe,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("\nRecord not found!!\a\a\a");
            edit 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)
                    sel();
                else if (main exit==2)
                    close();
                else if(main_exit==0)
                    edit();
                else
                    {printf("\nInvalid!\a");
                    goto edit invalid;}
        }
```

```
else
        {printf("\n\nEnter 1 to go to the main menu and 0 to}
exit:");
        scanf("%d",&main_exit);
        if (main exit==1)
            sel();
        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);
        printf("\nEnter the pin:\t");
        scanf("%d", &transaction.password);
    while (fscanf(old,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.age, add.address, add.citizenship, &add.phone, add.a
cc_type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
) !=EOF)
   {
```

```
if (add.acc no==transaction.acc no &&
add.password==transaction.password)
            { test=1;
if(strcmp(add.acc_type, "fixed1") == 0 | | strcmp(add.acc_type, "fixed2") == 0 |
|strcmp(add.acc type, "fixed3") == 0)
                {
                    printf("\a\a\n\nYOU CANNOT DEPOSIT OR WITHDRAW
CASH IN FIXED ACCOUNTS!!!!!");
                    fordelay(100000);
                    menu();
                }
                printf("\n\nDo you want
to\n1.Deposit\n2.Withdraw\n3.Balance enq.\n\nEnter your choice:");
                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 %d %s %d/%d/%d %d %s %s %lf %s
%f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
                    printf("\n\nDeposited successfully!");
                }
                else if(choice==2)
                {
```

```
printf ("Enter the amount you want to withdraw:$
");
                    scanf("%f",&transaction.amt);
                    add.amt-=transaction.amt;
                    fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s
응f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe, add.amt, add.deposit.month, add.deposit.day, add.deposit.year);
                    printf("\n\nWithdrawn successfully!");
                }
            else if(choice==3)
            {printf("The balance is :%2f ",add.amt);
               fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
            }
            else
            {
               fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe,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\n\n to try again,1 to return to main menu and
2 to exit:");
      scanf("%d", &main exit);
      if (main_exit==0)
        transact();
    else if (main exit==1)
        sel();
    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);
        if (main_exit==1)
            sel();
        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);
    printf("\nEnter the pin:\t");
    scanf("%d", &rem.password);
    while (fscanf(old,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.age, add.address, add.citizenship, &add.phone, add.a
cc type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
) !=EOF)
   {
        if(add.acc no!=rem.acc no)
            fprintf(newrec,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc no,add.password,add.name,add.dob.month,add.dob.day
,add.dob.year,add.age,add.address,add.citizenship,add.phone,add.acc ty
pe,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("\next{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);
        if (main exit==1)
            sel();
        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);
        printf("\nEnter the pin:\t");
        scanf("%d", &check.password);
        while (fscanf(ptr,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
```

```
ay, &add.dob.year, &add.aqe, add.address, add.citizenship, &add.phone, add.a
cc type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
! = EOF
        {
            if (add.acc no==check.acc no)
            \{ 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,ad
d.dob.year,add.age,add.address,add.citizenship,add.phone,
add.acc type, add.amt, add.deposit.month, add.deposit.day, add.deposit.yea
r);
                if(strcmp(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(strcmp(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(strcmp(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(strcmp(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(strcmp(add.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);
        printf("enter the pin:");
        scanf("%d", &check.password);
        while (fscanf(ptr,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.age, add.address, add.citizenship, &add.phone, add.a
cc type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
) !=EOF)
        {
            if (strcmp(add.name, check.name) == 0)
                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,ad
d.dob.year,add.age,add.address,add.citizenship,add.phone,
add.acc type, add.amt, add.deposit.month, add.deposit.day, add.deposit.yea
r);
                if(strcmp(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(strcmp(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(strcmp(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(strcmp(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(strcmp(add.acc type, "current") ==0)
                     {
                         printf("\n\nYou will get no interest\a\a");
                      }
            }
        }
    }
    fclose(ptr);
     if(test!=1)
        { printf("\nRecord not found!!\a\a\a");
            see_invalid:
              printf("\next{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)
                     see();
```

```
{
                     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)
       {
          sel();
       }
       else
         close();
          }
}
void close(void)
{
   printf("\n\n\nEDDY\n2.K
DEVA BHARGAV\n3.HEMANTH R SHANKAR\n4.HIMAKEERTHI J\n5.JEEVAN
N\n\t\ YOU.....\n\n\n\n");
   }
```

else

```
void menu(void)
{ int choice;
   printf("\n\n\t\t\tBANKER'S BANKING MANAGEMENT SYSTEM");
   MAIN MENU \xB2\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.Removing existing account\n\t.View
customer's list\n\t\t7.To know the total balance in the
bank\n\t\t8.Exit\n\n\n\n\t\t Enter your choice:");
   scanf("%d", &choice);
   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:balance();

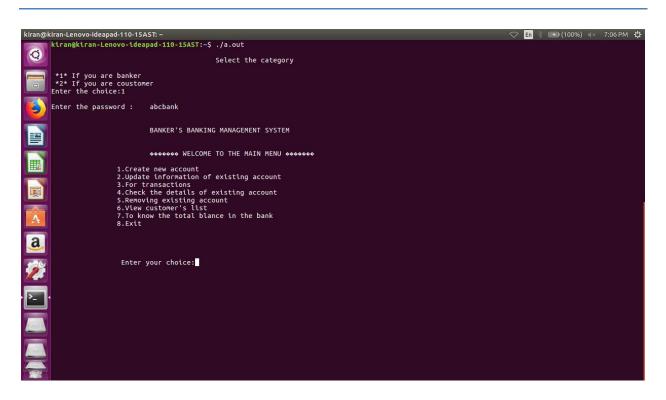
```
break;
        case 8:close();
        break;
        default:close();
        break;
    }
}
int sel()
 switch (a)
 case 1:
  {char c[10]="abcbank";
  char d[10];
  reenter:
   printf("\nEnter the password :\t");
   scanf("%s",d);
   if(strcmp(c,d)==0)
  menu();
   }
else
   printf("\t\t\t\t\tWrong password!!!!\n\n");
   printf("Enter 1 for retry or 0 to exit : ");
   int z;
   scanf("%d",&z);
   if(z==1)
   goto reenter;
   }
   else
   close();
}break;
  case 2:
   list();
  break;
  default:
```

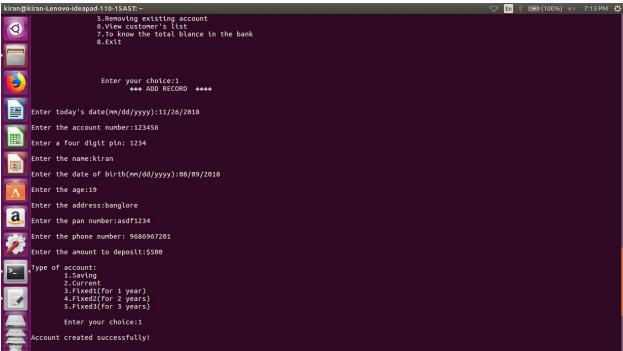
```
printf("\nInvalid\n");
 }
}
void list(void)
{ int choice;
   printf("\n\n\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");
   MAIN MENU \xB2\xB2\xB2\xB2\xB2\xB2\xB2");
   printf("\n\t\t1.Create new account\n\t\t2.Update information of
existing account\n\t\t3. For transactions\n\t\t4. Check the details of
existing account\n\t\t5.Removing existing
account\n\t\t6.Exit\n\n\n\n\t\t Enter your choice:");
   scanf("%d",&choice);
   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:close();
       break;
```

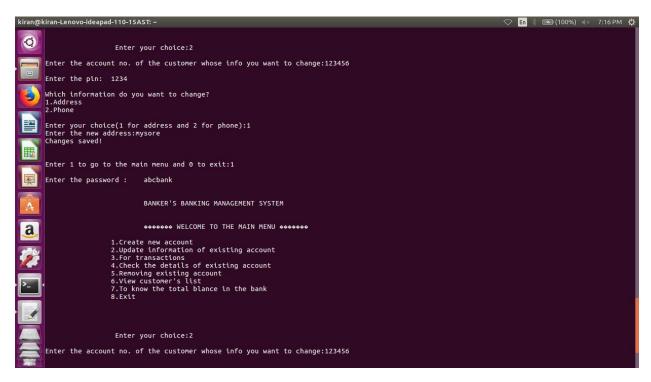
```
default:close();
        break;
}
}
int balance()
FILE *p;
p=fopen("record.dat", "a+");
temp.amt=0;
while (fscanf(p,"%d %d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d", &add.acc no, &add.password, add.name, &add.dob.month, &add.dob.d
ay, &add.dob.year, &add.age, add.address, add.citizenship, &add.phone, add.a
cc type, &add.amt, &add.deposit.month, &add.deposit.day, &add.deposit.year
)! = EOF)
temp.amt=temp.amt+add.amt;
printf("The total balance in the bank is: %f\n",temp.amt);
printf("\nEnter 1 to go to the main menu and 0 to exit:");
        scanf("%d", &main_exit);
        if (main exit==1)
        {
            sel();
        }
        else
           close();
            }
}
int main()
printf("\n\t\t\t\tSelect the category\n");
printf("\n *1* If you are banker\n *2* If you are coustomer\nEnter the
choice:");
```

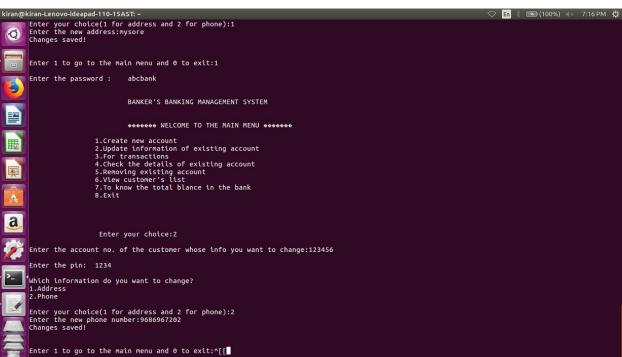
```
scanf("%d",&a);
sel();
}
```

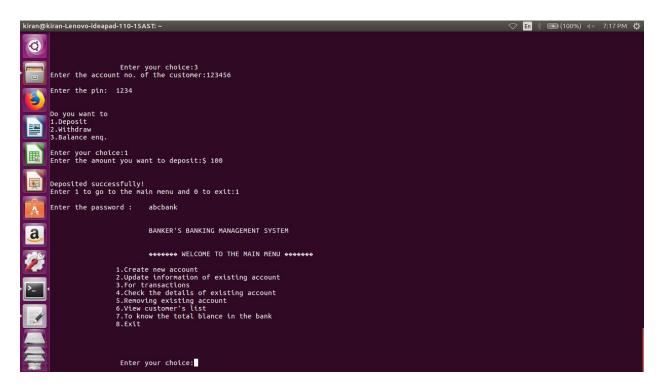
### 6. EXPECTED OUTPUT ANALYSIS

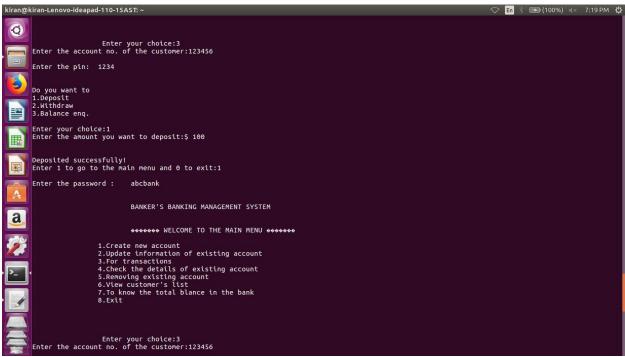


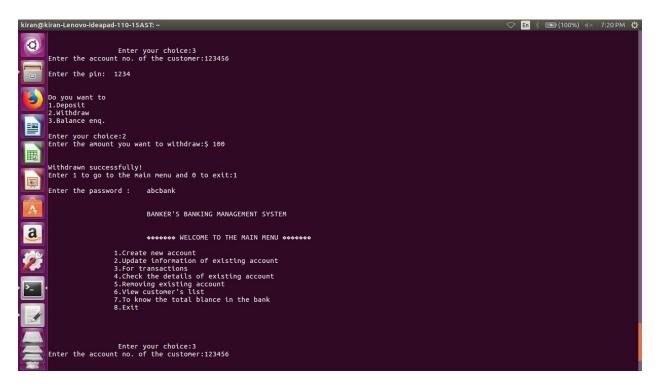


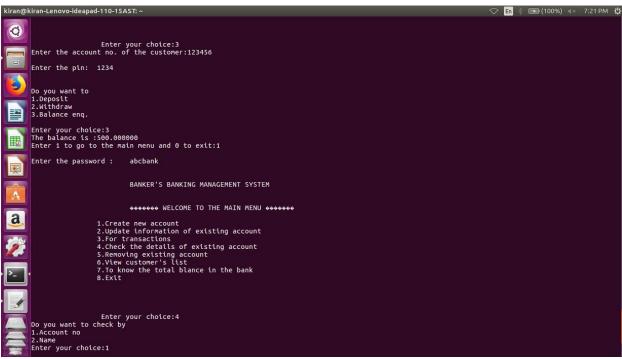


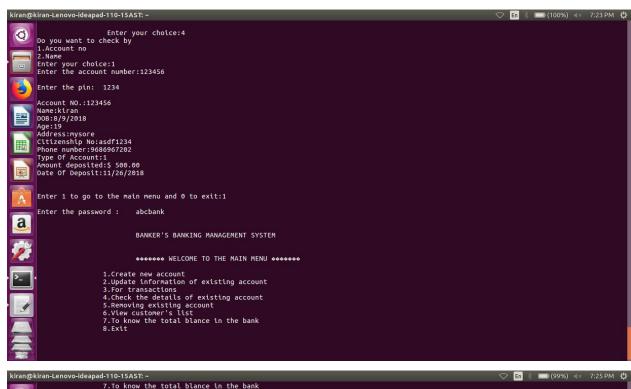


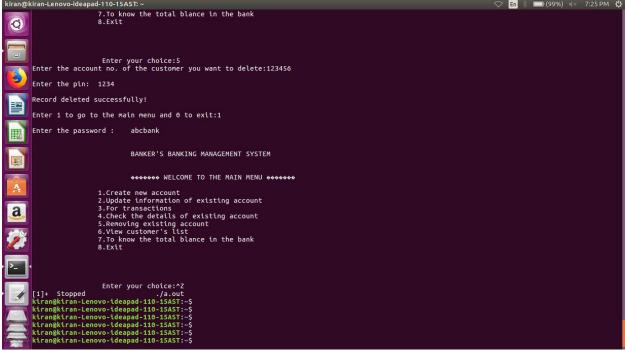


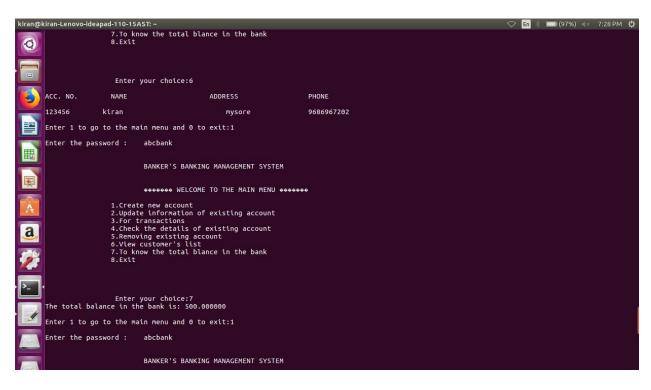


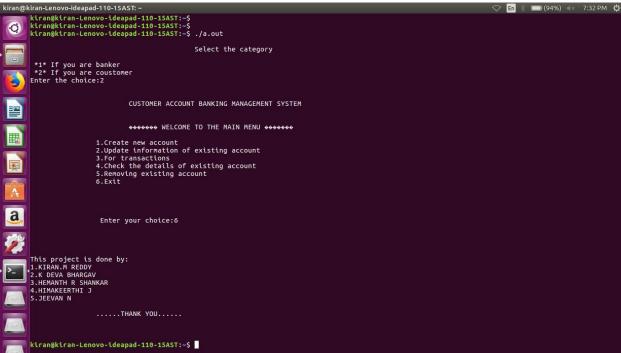












### 7. CONCLUSION

This project is developed to nurture the needs of a user in a banking sector by embedding all the tasks of transactions taking place in bank.

Future version of this software will still be much enhanced than the current version 1.0. Thus the bank management system it is developed and executed successfully.

## 8. REFERENCES

- [1]https://github.com
- [2] www.wikipedia.org
- [3]www.codeproject.com