



Daffodil
International
University

Department of Software Engineering (FSIT)

Course : Software Engineering Project-I (Using C)

Course Code: SWE 231

Project Report

(Individual Project)

Project Name: Online Bank Management System

Version: V 1.9

Submitted By:

Abu Zahid Md Jalal Uddin Joy

ID: 161-35-1611

Section: B

Under Supervision

K. M. Imtiaz-Ud- Din

Assistant Professor

Department of Software Engineering

Daffodil International University

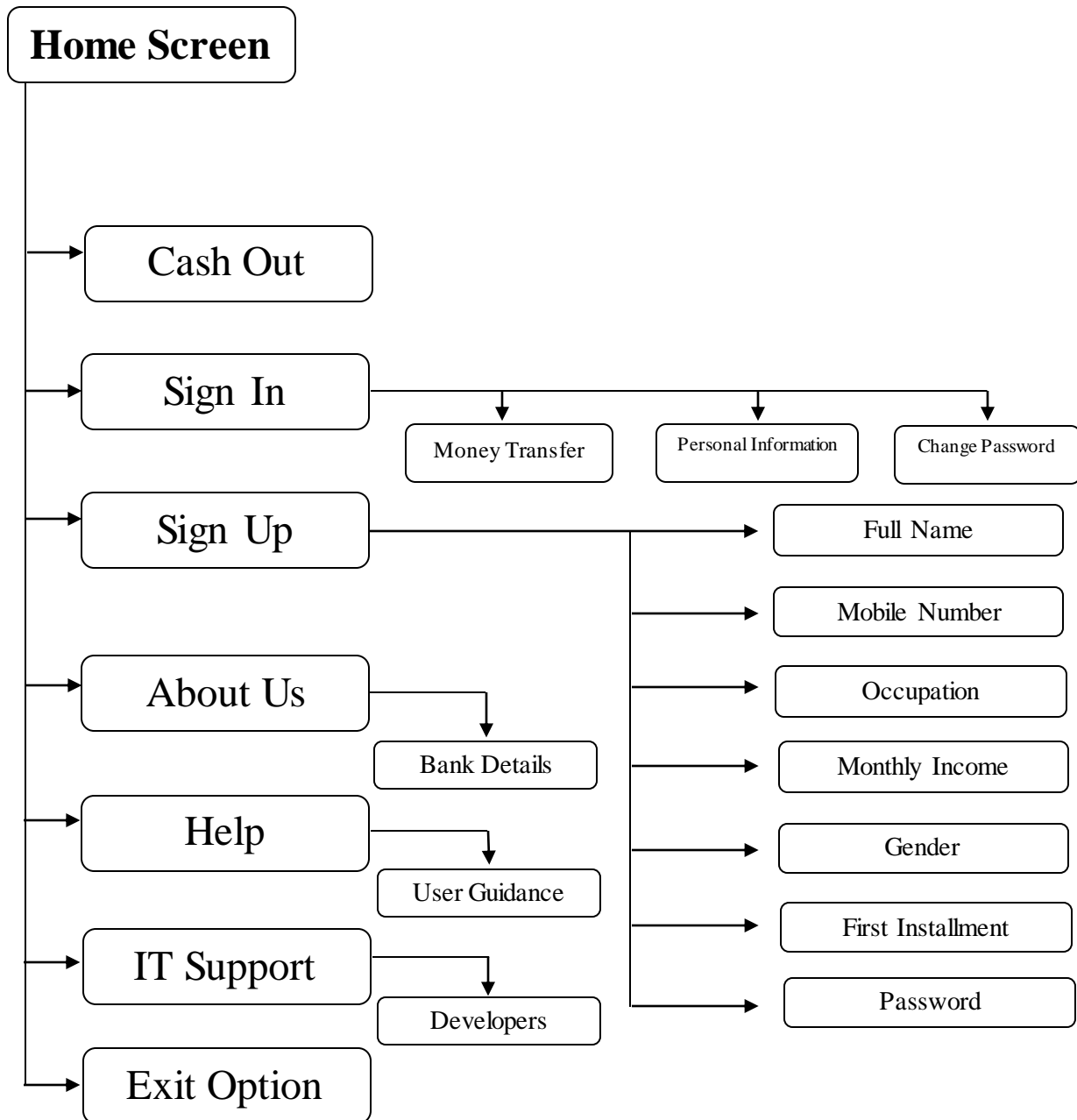
Description:

The main objective of the project is to develop online Banking system for banks. In this bank management system I've automated all the banking process. In this bank management system user can check his balance online and he can also transfer money to other account online. The main purpose of developing bank management system is to design an application, which could store bank data and provide an interface for retrieving customer related details with 100% accuracy.

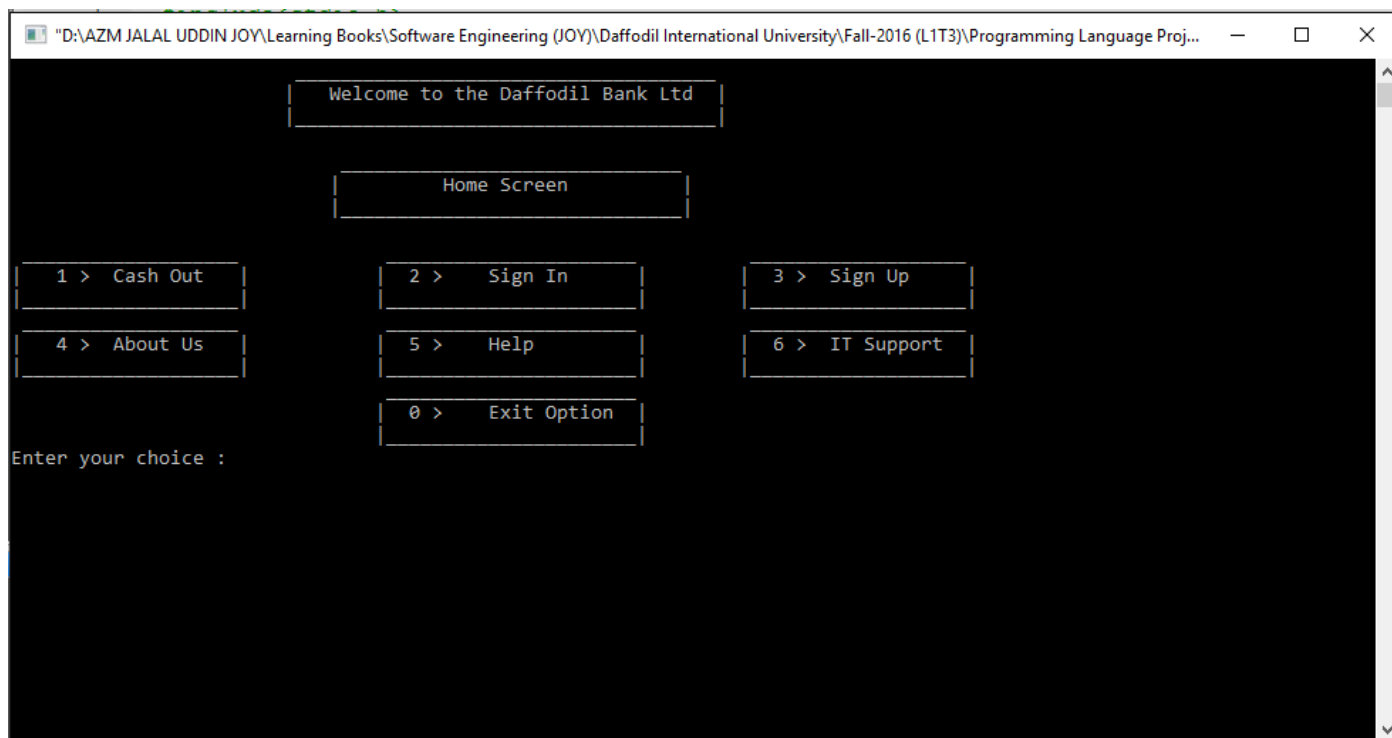
This bank management system also allow user to add new customer account, user can also modify existing user password. Using our bank management system user can also check any transaction in any account.

Version 1.9

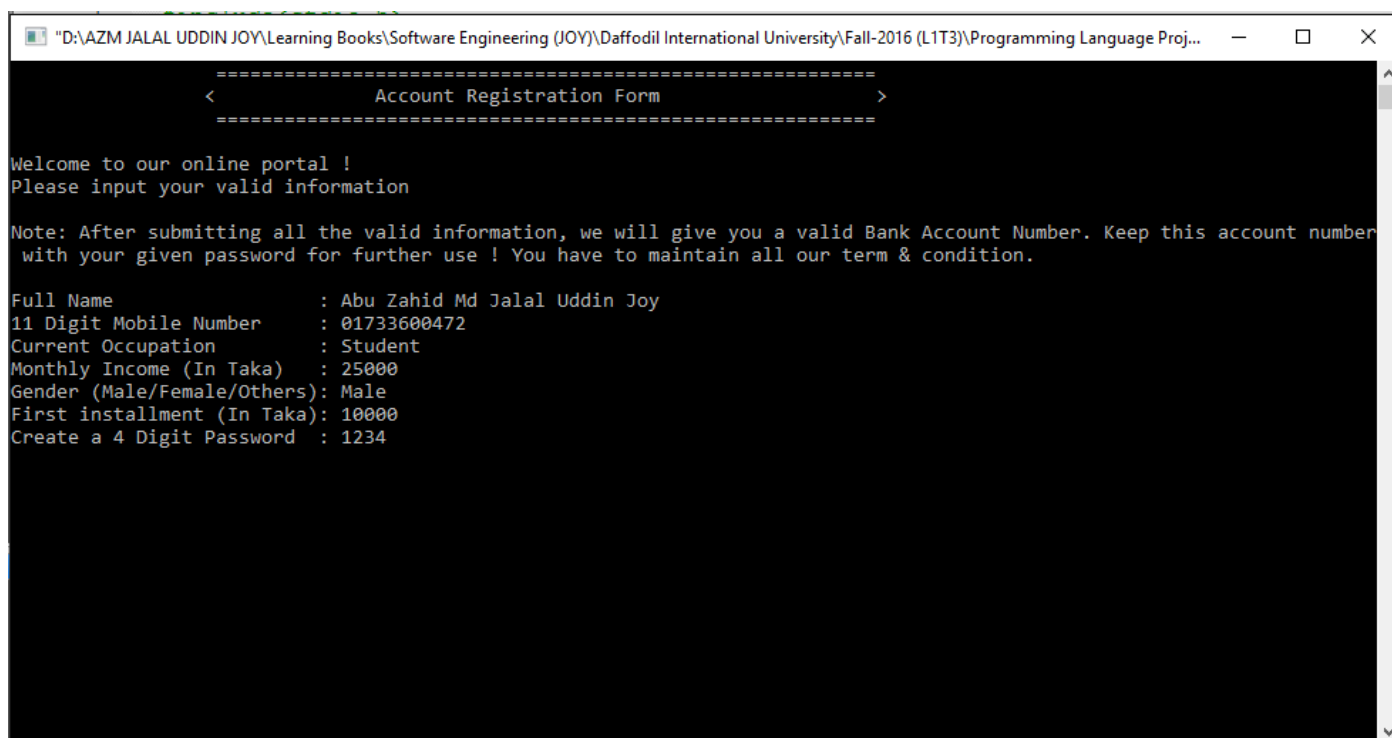
With chart:



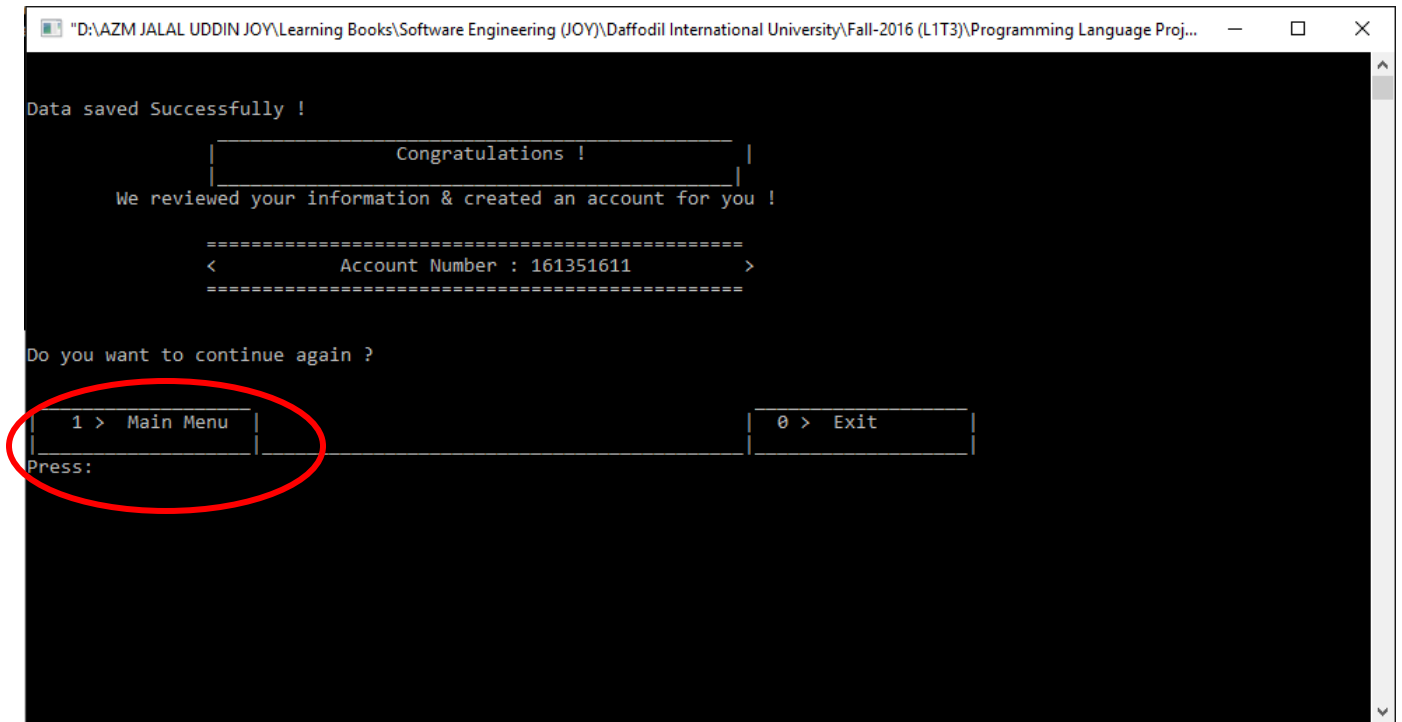
Output Screens:



3 > Sign Up



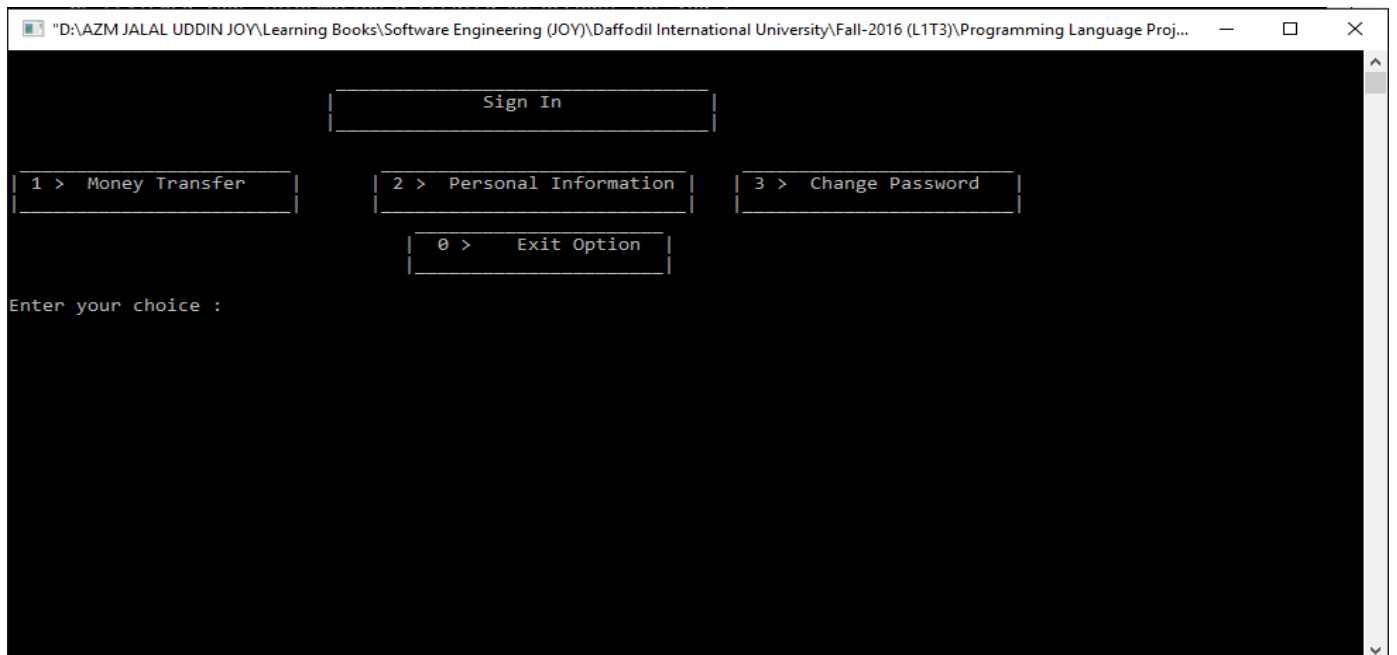
Press Okey.



Press 1:

2 > Sign In

Again Press 2:

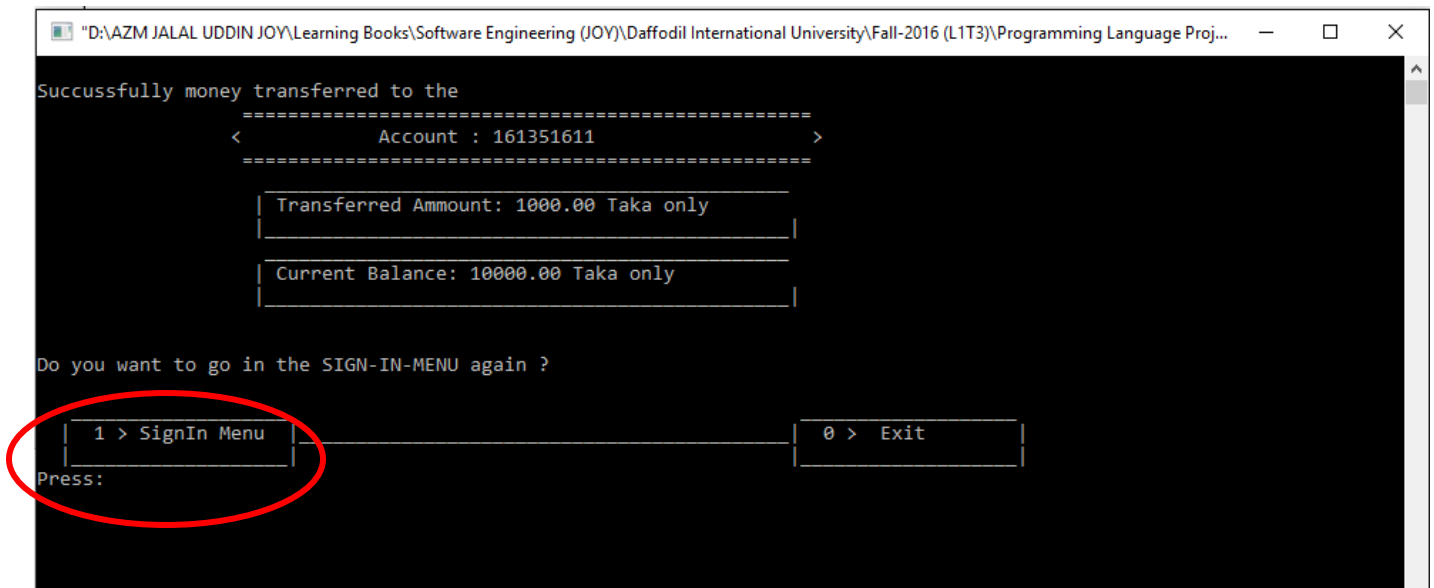


Press 1: (Sign In/Money Transfer)

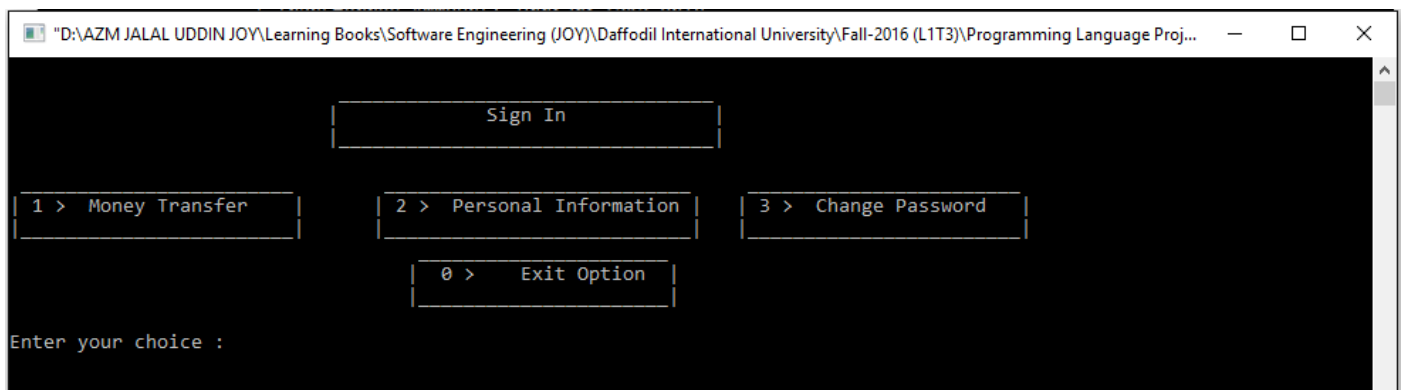


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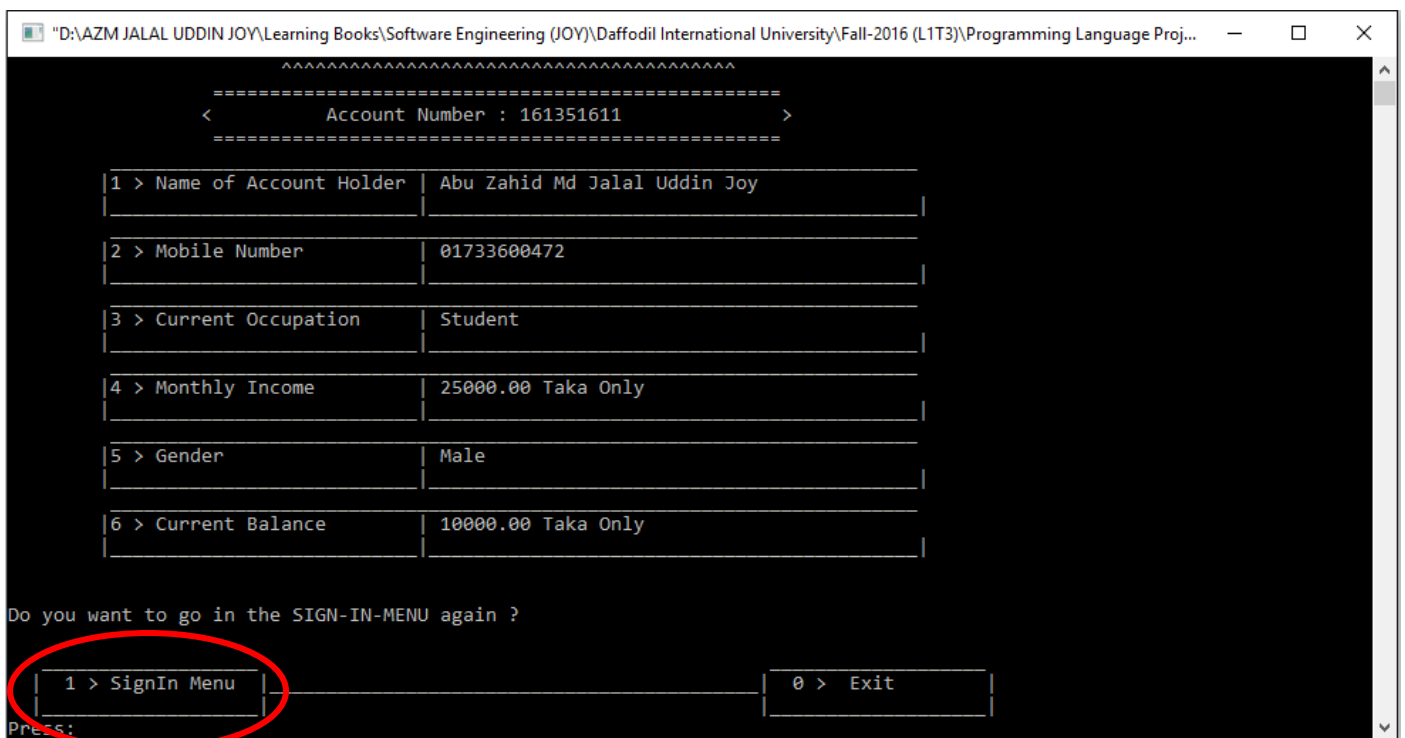
Enter:



Press 1:

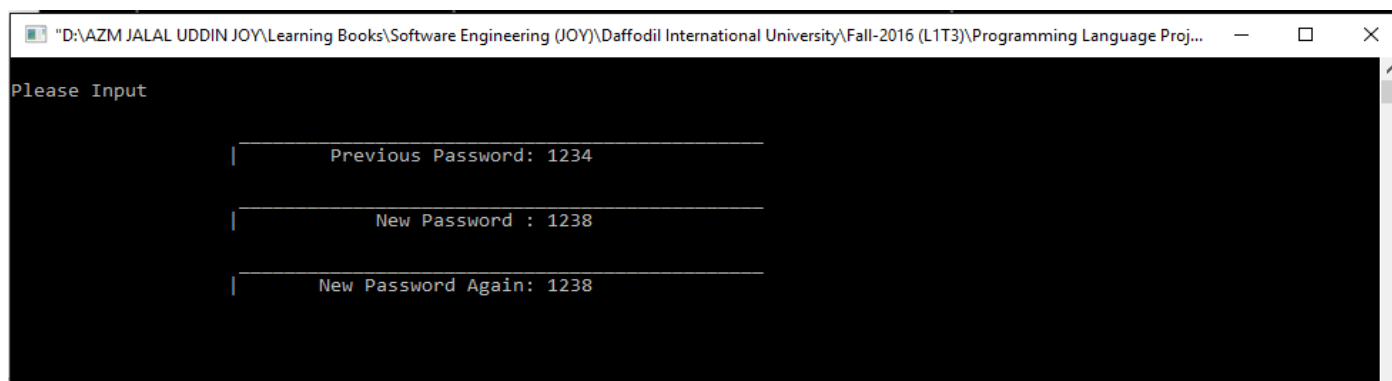


Press 2: (Sign In/Personal Information)



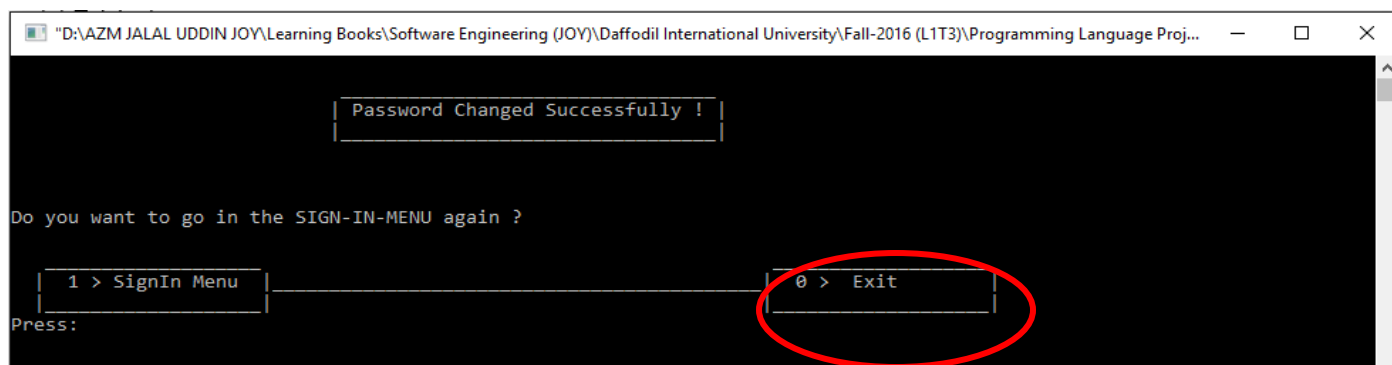
161-35-1611
Press 1:

Press 3: (Sign In/Change Password)



A terminal window titled "D:\AZM JALAL UDDIN JOY\Learning Books\Software Engineering (JOY)\Daffodil International University\Fall-2016 (L1T3)\Programming Language Proj..." displays a "Please Input" prompt. Below the prompt are three input fields: "Previous Password: 1234", "New Password : 1238", and "New Password Again: 1238".

Enter:



A terminal window titled "D:\AZM JALAL UDDIN JOY\Learning Books\Software Engineering (JOY)\Daffodil International University\Fall-2016 (L1T3)\Programming Language Proj..." displays the message "Password Changed Successfully !". Below this, it asks "Do you want to go in the SIGN-IN-MENU again ?". There are two options: "1 > SignIn Menu" and "0 > Exit". The "0 > Exit" option is circled in red. Below the options is a "Press:" prompt.

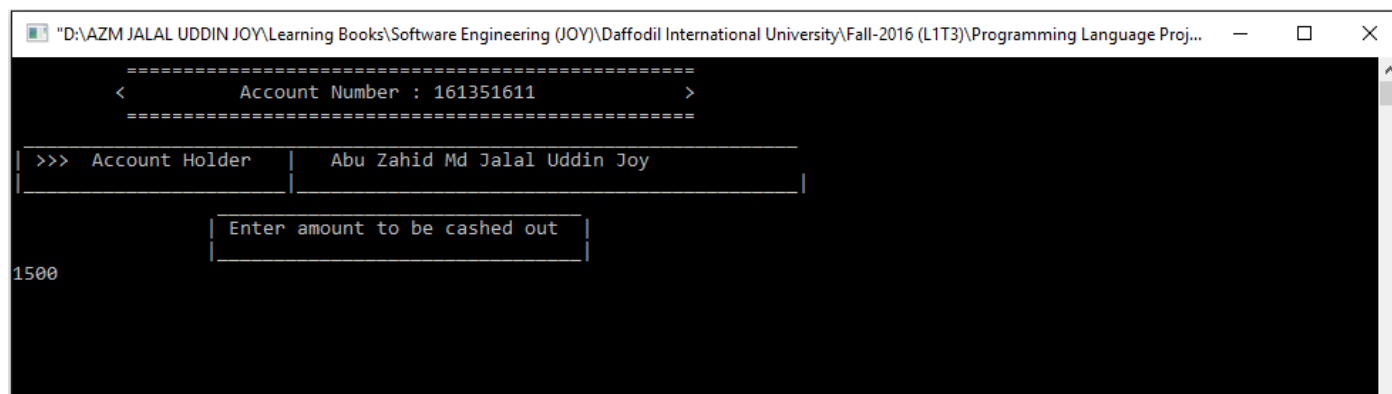
Press 0:

1 > Cash Out



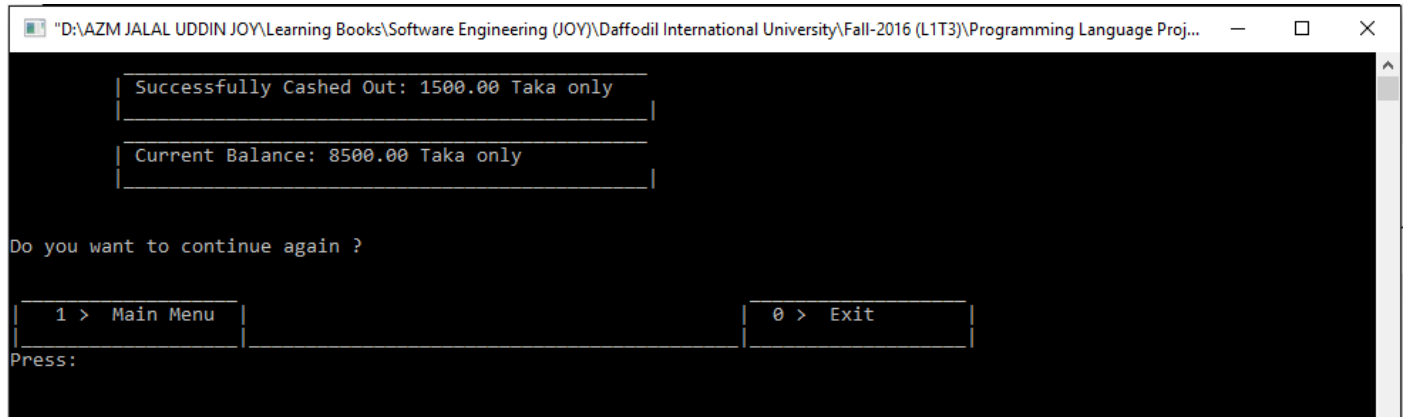
A terminal window titled "D:\AZM JALAL UDDIN JOY\Learning Books\Software Engineering (JOY)\Daffodil International University\Fall-2016 (L1T3)\Programming Language Proj..." displays a menu titled "Cash Out" between two sets of asterisks. Below the menu, it prompts for "Enter Your 9 Digit Account Number : 161351611" and "Enter Your 4 Digit Password : 1238".

Enter:

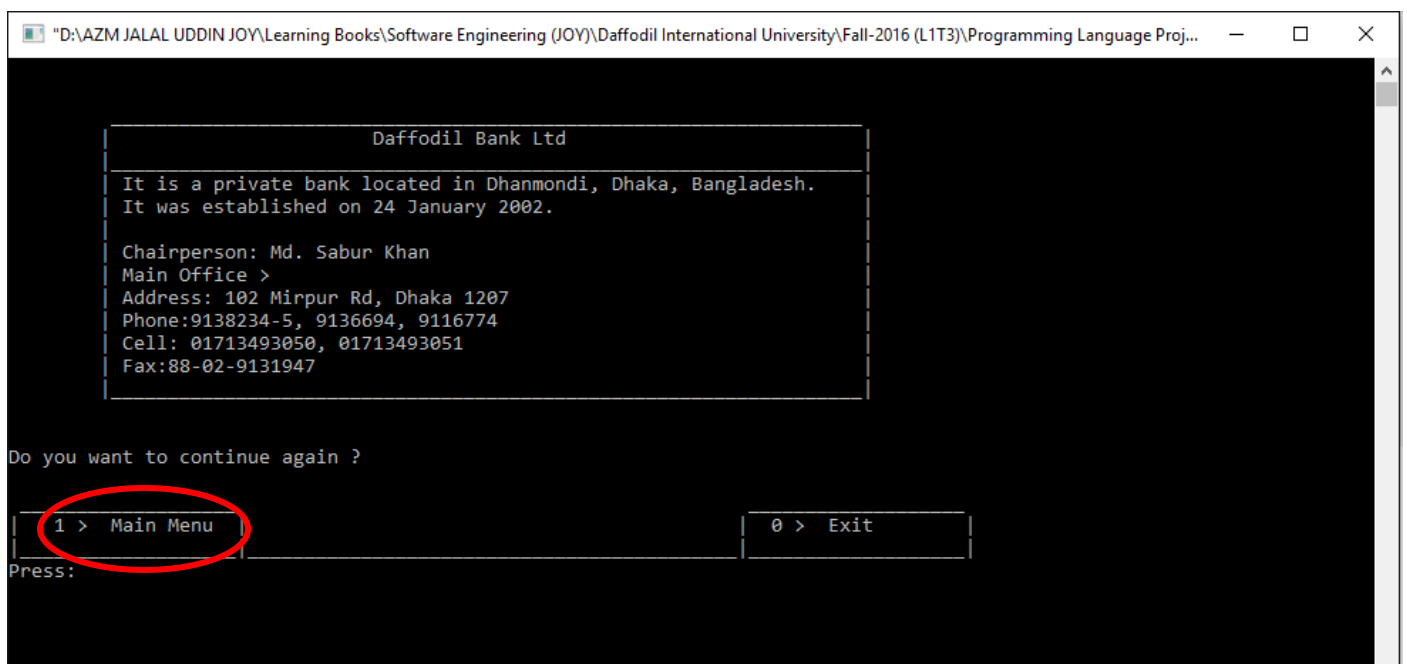
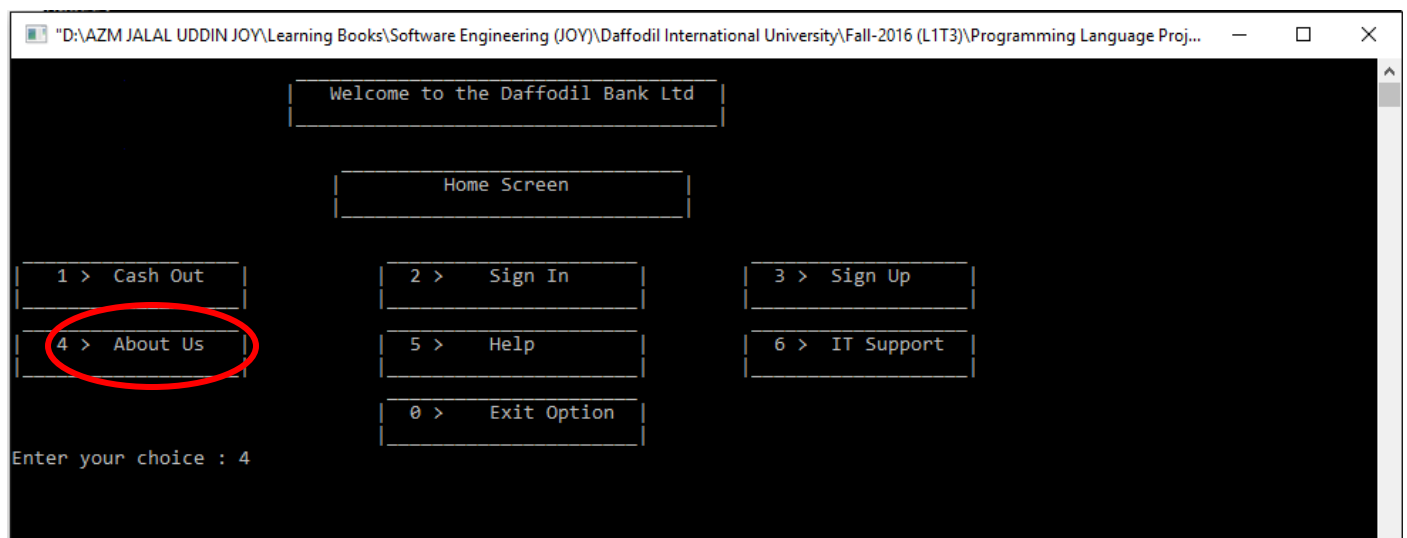


A terminal window titled "D:\AZM JALAL UDDIN JOY\Learning Books\Software Engineering (JOY)\Daffodil International University\Fall-2016 (L1T3)\Programming Language Proj..." displays account details. It shows "Account Number : 161351611" and "Account Holder : Abu Zahid Md Jalal Uddin Joy". Below this, it prompts for "Enter amount to be cashed out". The number "1500" is visible on the left side of the terminal.

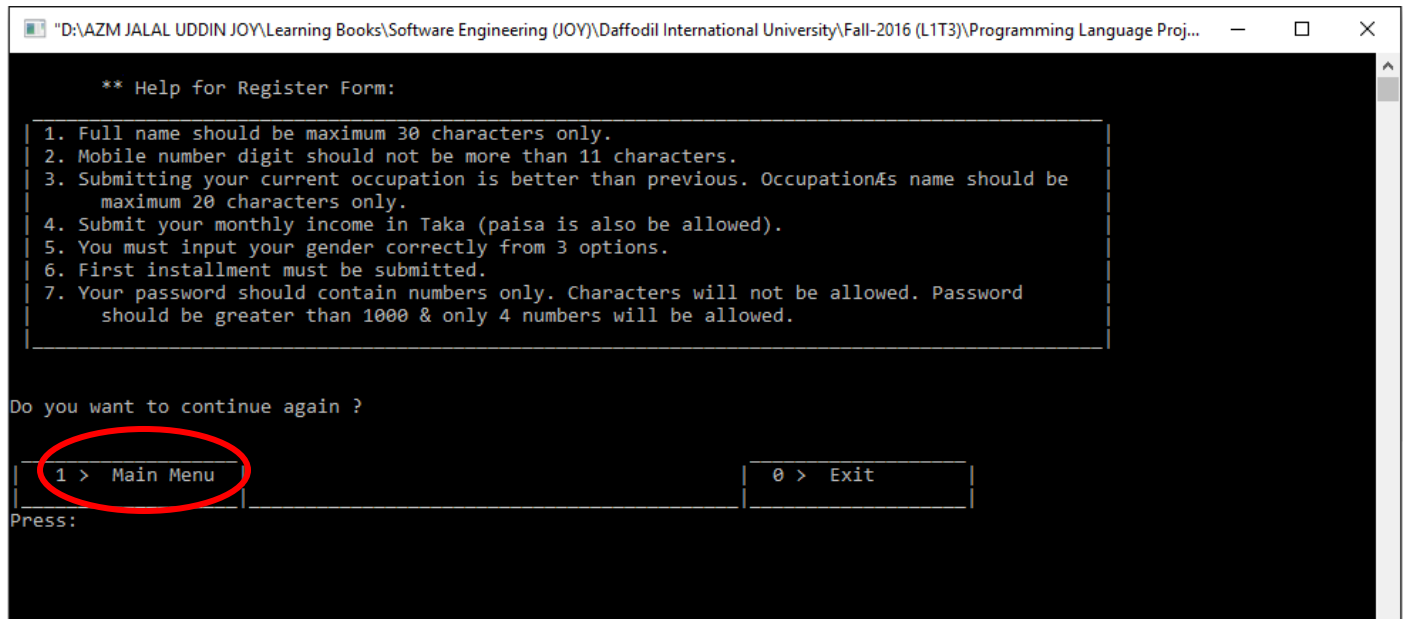
Enrer:



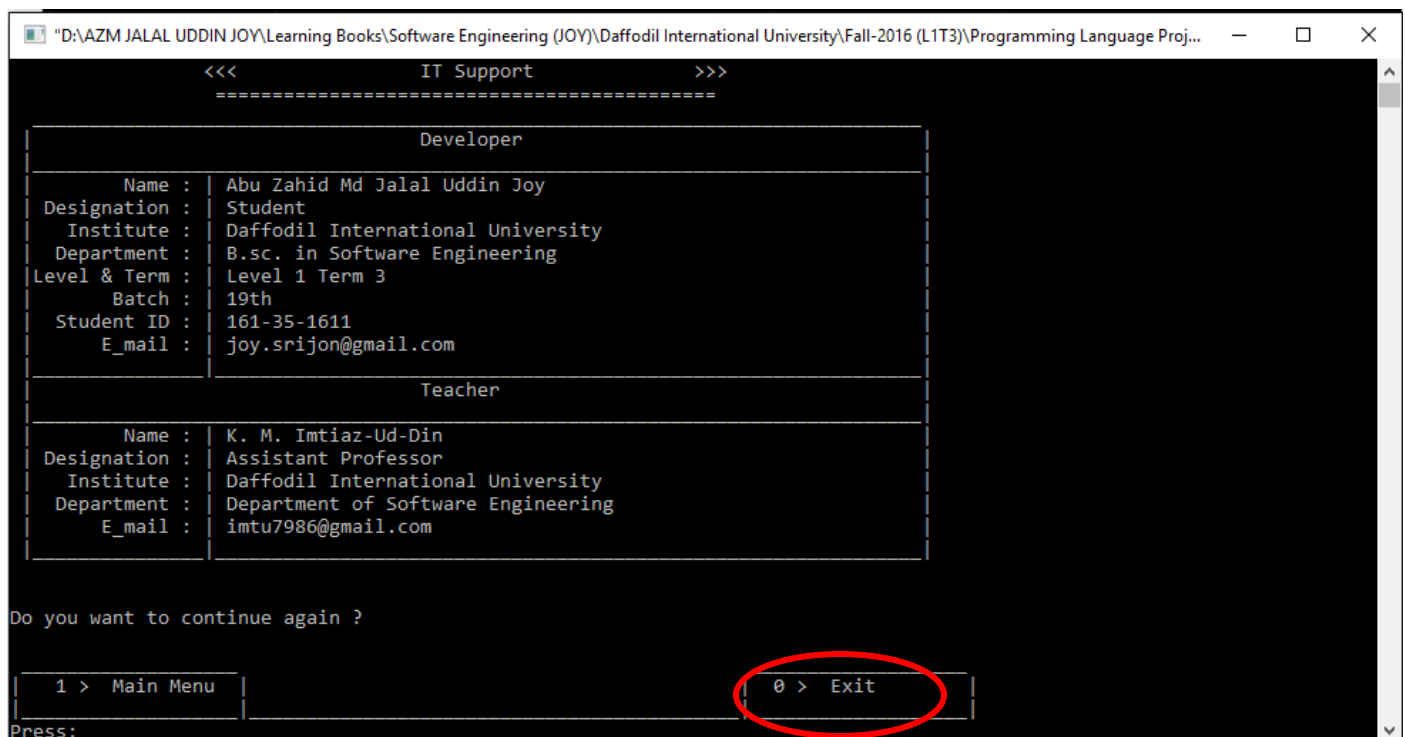
4 > About Us



5 > Help Menu



6 > IT Support



Exit.

```

#include<stdio.h>
#include<string.h>
#include <stdlib.h>
#define account_capacity 15//globally variable declaration
struct sign_up_info{
    char name[30];
    char mobile[12];
    char occupation[20];
    float monthly_income;
    char gender[6];
    float first_installment;
    int account_number;
    int password;
}sign_up[account_capacity];//sign up array

int main ()
{
/*Here's f,i,j,k,l,m,n,p all are used as counter variable*/
    int option=1, choice, sign_in_option=1, sign_in_choice,f=0, i, j=0, k=0,
    l=0, m=0,n=0,p=0, sign_in_account_number,sign_in_password,
    signin_money_transfer_account, signin_change_pass_request_previous_password,
    signin_new_password_step1, signin_new_password_step2,
    asking_for_password_recover;

    float cash_out_balance, signin_money_transfer_taka;

    char fullname_forgotten_password[30], mobile_forgotten_password[12],
    occupation_forgotten_password[20];

    FILE*inputfile;//Loading information from File

    inputfile = fopen("accounts_information.txt", "r");

    if (inputfile!=NULL){
        fprintf(stderr, "\nData Loaded Successfully from file
        \"accounts_information.txt\"\nPlease continue...\n");

        }//Saved data willbe loaded from file

        fscanf(inputfile, "%d\n", &f);

        for (p=0; p<account_capacity; p++){
            fread(&sign_up[p], sizeof(struct sign_up_info), 1,
inputfile);

            }//loading data by index

            i=f;//value of f transfers to i; for sign up purpose

```

[illegible]

[illegible]

```

sign_up[l].first_installment=sign_up[l].first_installment+signin_money_transfer
_taka;

system("cls");

printf("\nSuccussfully money transferred to the\n");

printf("\t\t =====\n\t\t <\t
Account : %d \t\t >\n\t\t
===== \n",
signin_money_transfer_account);

printf("\t\t _____ \n\t\t |
Transferred Ammount: %.2f Taka only \n\t\t
|_____ | \n",
signin_money_transfer_taka);

printf("\t\t _____ \n\t\t |
Current Balance: %.2f Taka only \n\t\t
|_____ | \n",
sign_up[j].first_installment); break; }

else{system("cls");//low balance will be shown when the necessity of Taka is
lower than the account balance

printf("\n\t\t a _____ \n\t\t | \t Low Balance\t
| \n\t\t | _____ | \n");

break; }

} else if(l==account_capacity-1) {system("cls");printf("\a\n\t\t\t
_____ \n\t\t\t | Money Transfer can't be
possible| \n\t\t\t | _____ | \n\n");}

}break;

case 2 ://case 2 is working for showing account holder details

system("cls");
printf("\t\t\t ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^\n\t\t\t <\t Personal
Information\t\t >\n\t\t\t ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^\n");

printf("\t\t =====\n\t\t <\t
Account Number : %d \t\t >\n\t\t
===== \n",
sign_up[j].account_number); printf("\t
_____ \n\t|1 >
Name of Account Holder |
%s\n\t|_____ |
\n", sign_up[j].name); printf("\t
_____ \n\t|2 >
Mobile Number |
%s\n\t|_____ |
\n", sign_up[j].mobile); printf("\t
_____ \n\t|3 >
Current Occupation |
%s\n\t|_____ |
\n", sign_up[j].occupation);

```



```
scanf ("%d", &sign_in_option); if (sign_in_option != 1)//input 1 for return in  
the sign in menu  
  
break; }break; }  
  
else if (j==account_capacity-1)  
{//if wrong password or account number is submitted, forgotten password request  
will be shown  
  
system("cls");  
  
printf("\n\n\t\t \ta=====\\n\\t\\t  
<\tWrong Account or Password combination !      >\\n\\t\\t  
=====\\n");  
  
printf("Forgot password ?\\nDo You want to recover ?");  
  
printf("\\n _____\\t\\t\\t\\t\\t_____\\n |1 >  
Ignore          |_____|0 > Recover  
Password|\\n |_____|\\t\\t\\t\\t\\t |_____|\\n");  
  
printf("\\nEnter Your Choice: ");  
  
scanf("%d", & asking_for_password_recover);  
  
if (asking_for_password_recover==0) {system("cls");  
  
printf("\\n\\t\\t\\t _____\\n\\t\\t\\t |\\t Forgotten  
Password ?\\t |\\n\\t\\t\\t |_____|\\n\\n");  
  
printf("Please Answer correct to the question below:\\n\\n");  
  
printf("Full Name\\t\\t :");//upper case letter and lower case letter is  
mandatory for checking  
  
scanf(" %[^\\n]",fullname_forgotten_password);  
  
printf("11 Digit Mobile Number\\t :");  
  
scanf(" %[^\\n]", mobile_forgotten_password);  
  
for (m=0; m<account_capacity; m++){if (strcmp(fullname_forgotten_password,  
sign_up[m].name)==0) {system("cls");  
  
printf("\\n\\t\\t\\t _____\\n\\t\\t\\t | Your Password  
|\\t%d\\t |\\n\\t\\t\\t  
|_____|_____|\\n\\n",sign_up[m].password);  
  
break; }  
  
else if (m==account_capacity-1) {  
  
printf("\\n\\t\\t\\t\\ta _____\\n\\t\\t\\t |Your Given  
Information Is wrong !!\\n\\t\\t\\t |_____|\\n\\n");  
  
break; }}break;  
  
}  
  
} //forgot password recovery ending process  
  
}break;
```

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```
sign_up[i].account_number=161351611+i;//account registering will be started
from this ID
```

[illegible]

```
printf(" | 5. You must input your gender correctly from 3  
options.\t\t\t\t|\n");  
  
    printf(" | 6. First installment must be  
submitted.\t\t\t\t\t|\n");  
  
    printf(" | 7. Your password should contain numbers only. Characters  
will not be allowed. Password\t\n |\tsould be greater than 1000 & only 4  
numbers will be allowed.\t\t\t\t|\n");printf("  
|_____  
_____|\n");break;  
  
case 6://showing IT Support of this program  
    system("cls");  
    printf("\t\t\t =====\tn\t\t  
<<<\t\t\t IT Support \t\t\t >>>\n\t\t  
=====\\n");printf("\\  
n");printf(" |\t\t\t\t Developer\t\t\t\t\t|\n");  
  
printf("  
|_____  
|\n");  
  
printf(" |\t Name : | Abu Zahid Md Jalal Uddin Joy\t\t\t\t\t|\n");  
    printf(" | Designation : | Student\t\t\t\t\t\t\t|\n");  
printf(" | Institute : | Daffodil International University\t\t\t\t\t|\n");  
printf(" | Department : | B.sc. in Software Engineering\t\t\t\t\t|\n");  
    printf(" |Level & Term : | Level 1 Term 3\t\t\t\t\t\t\t|\n");  
    printf(" |\t Batch : | 19th\t\t\t\t\t\t\t\t\t|\n");  
    printf(" | Student ID : | 161-35-1611\t\t\t\t\t\t\t\t\t|\n");  
    printf(" |\tE_mail : | joy.srijon@gmail.com\t\t\t\t\t\t\t\t\t|\n");  
    printf(  
|_____|_____  
|\n");  
  
    printf(" |\t\t\t\t Teacher \t\t\t\t\t\t\t|\n");  
  
printf("|_____  
_____|\n");  
  
    printf(" |\t Name : | K. M. Imtiaz-Ud-Din\t\t\t\t\t\t\t|\n");  
    printf(" | Designation : | Assistant Professor\t\t\t\t\t\t\t|\n");  
    printf(" | Institute : | Daffodil International  
University\t\t\t\t\t|\n");  
  
    printf(" | Department : | Department of Software  
Engineering\t\t\t\t\t|\n");  
  
    printf(" |\tE mail : | imtu7986@gmail.com\t\t\t\t\t\t\t\t\t|\n");
```

[illegible]