Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering Semester: (Fall, Year: 2021), B.Sc. in CSE (Day)

Course Title: Structured Programming Lab Course Code: CSE 104 Section: 212DA

Lab Project Name: BANK MANAGEMENT SYSTEM

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<u>Lab Project Status</u>		
Marks:	Signature:	
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Table of Contents

- 1. Introduction
- 2. Design Goals/Objective
- 3. Flow Chart
- 4. Implementations
- 5. Screenshots
- 6. Learning Outcome
- 7. Future Scope

Introduction

Originally, C language is developed from two previous languages, BCPL and B. BCPL which were developed in 1967 by Martin Richards as a language for wring operating systems and compilers. C was evolved from B by Dennis Ritchie at Bell Laboratories and it was implemented in 1972. It initially became widely known as the development language of the UNIX operating system. Lots of today's leading operating systems are written in C and C++. C language is mostly hardware independent as it is possible to write C programs that are portable to most computers.

Why we use c language C has been used successfully for each kind of programming problem thinkable from operating systems to spreadsheets to expert systems - and efficient compilers are accessible for machines ranging in power from the Apple Macintosh to the Cray supercomputers. The largest measure of C's success appears to be based on strictly sensible considerations:

- 1. The standard library concept.
- 2. The ease with that applications can be optimized by hand-

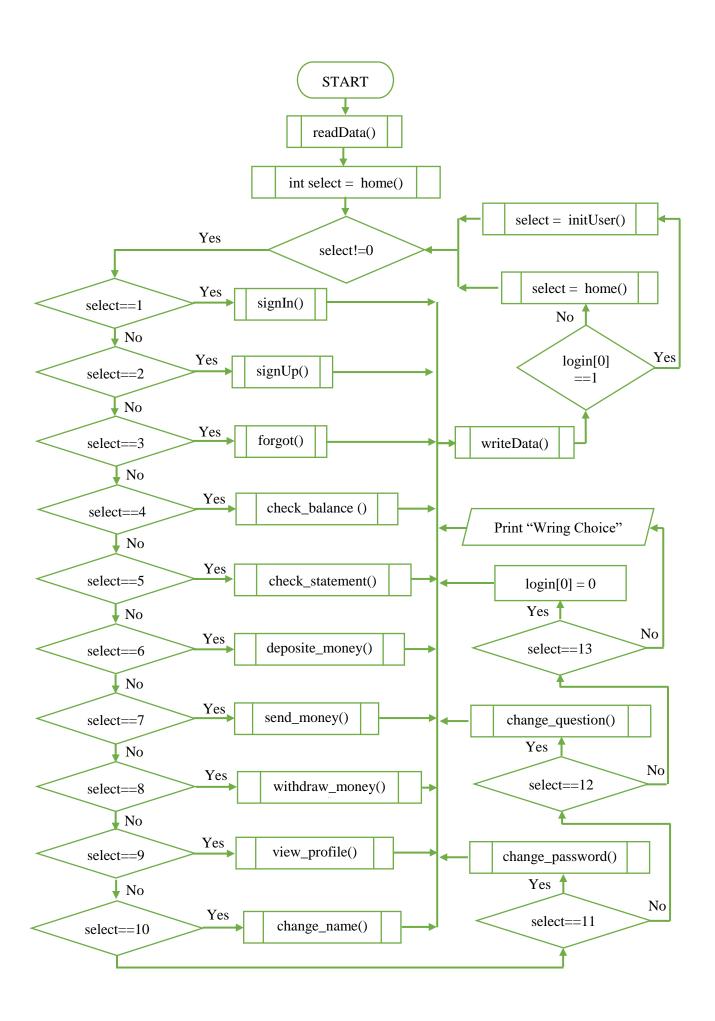
- coding isolated procedures.
- 3. A powerful and varied repertoire of operators.
- 4. The portability of the compiler.

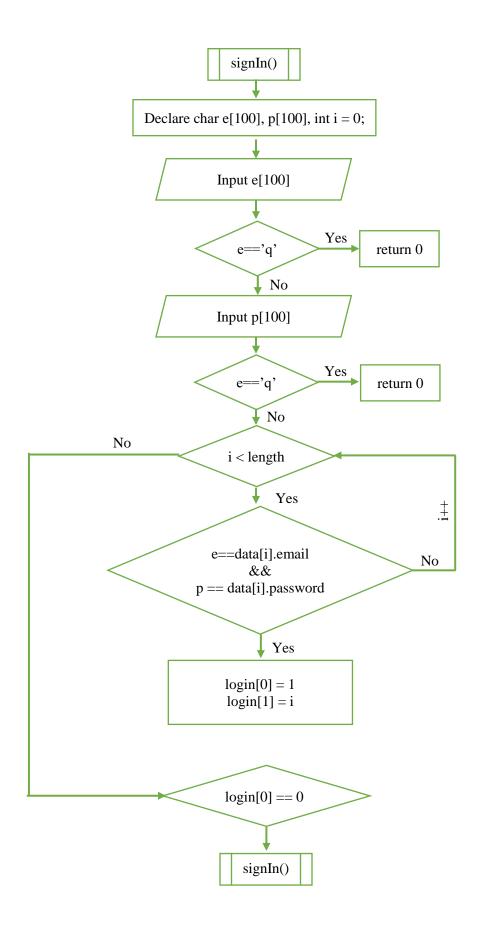
Design Goals/Objective

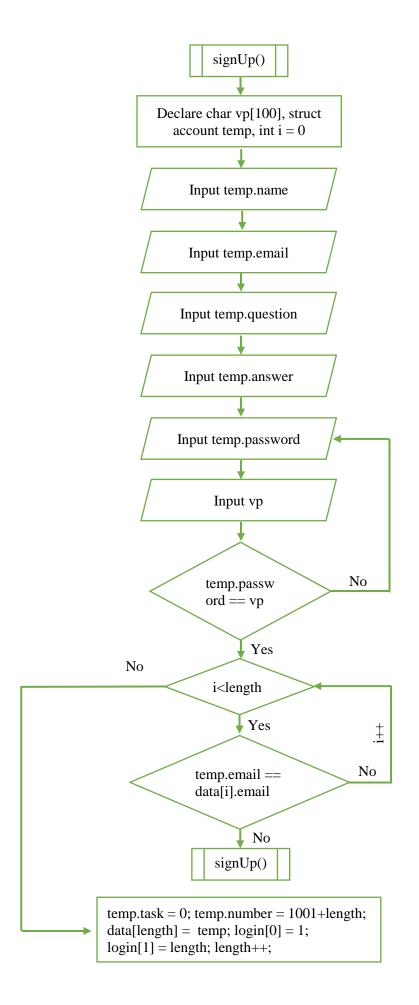
The goal of the project is to design a Bank Management System: Successful optimization of the "profitability-risk" ratio in bank lending operations is largely determined using effective bank management methods. The ability to take reasonable risks is one of the elements of entrepreneurship culture in general and banking culture.

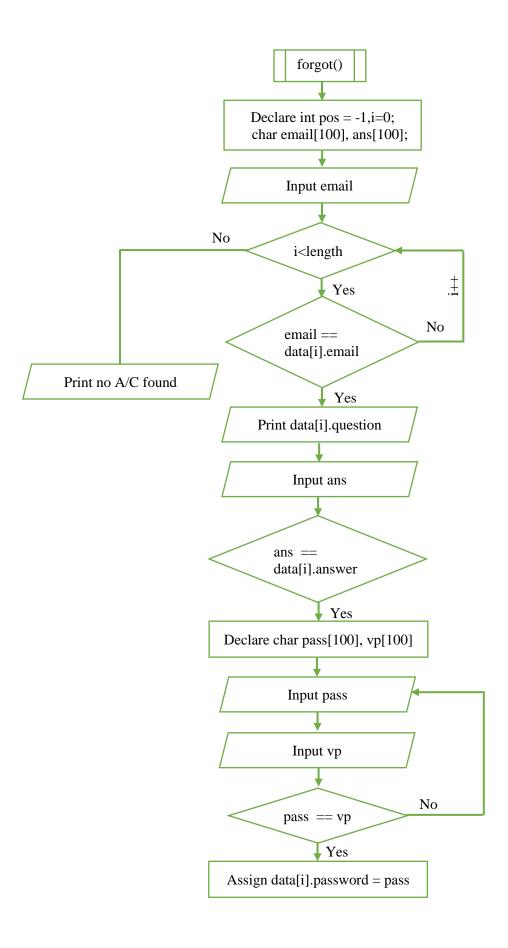
Flow Chart

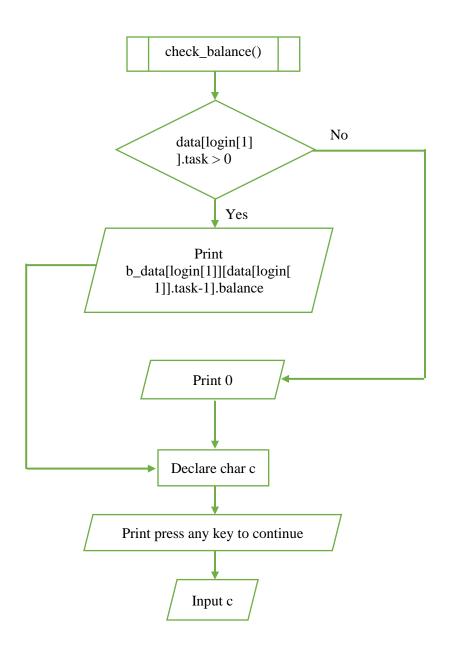
When the program is started, the user will direct to the main menu. The user will be required to select one of the four options if not logged in. If the user is logged in user required to select one of eleven options.

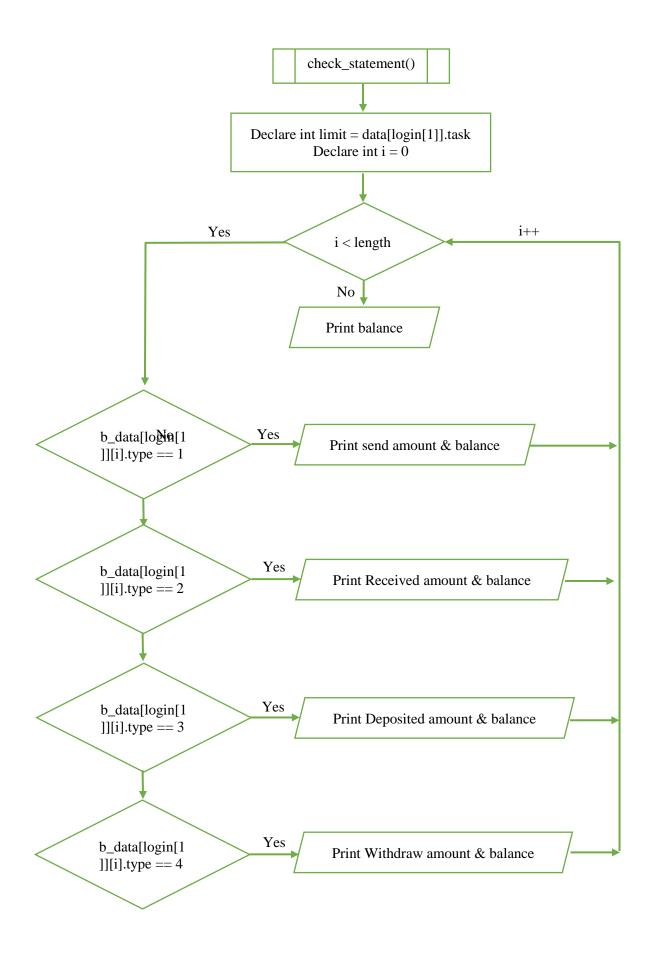


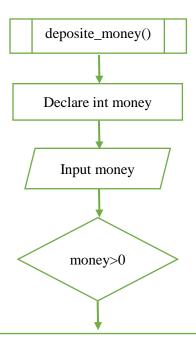




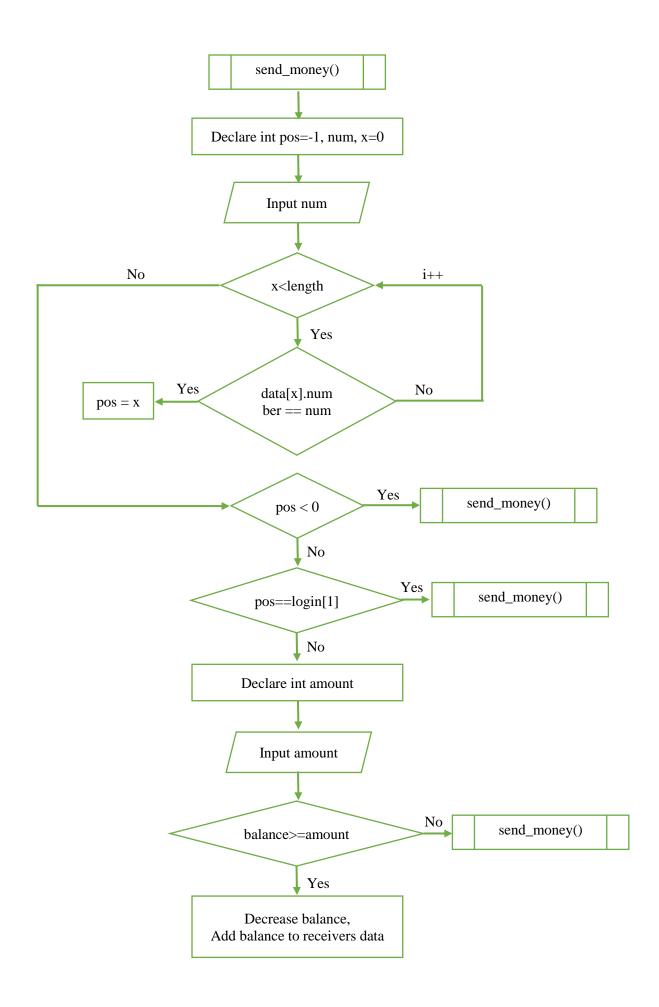


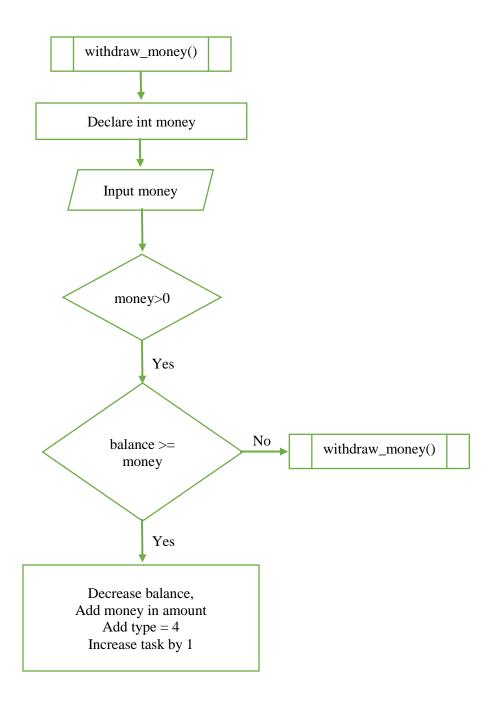


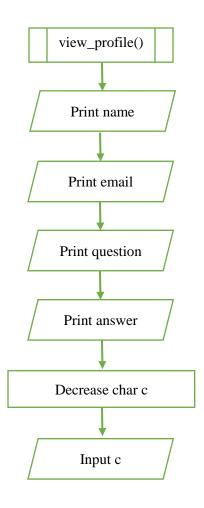


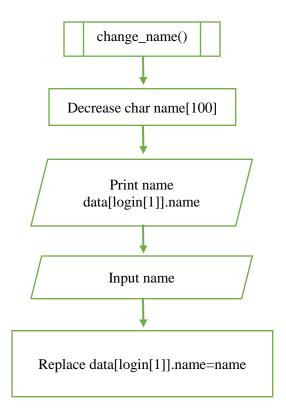


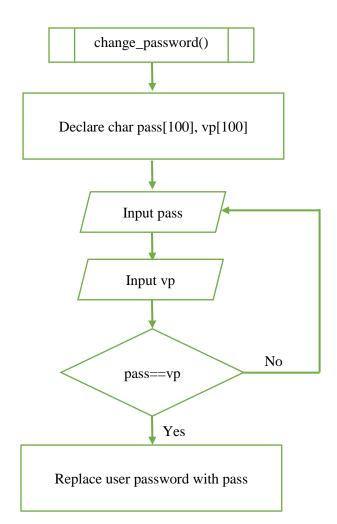
```
b_data[login[1]][data[login[1]].task].amount = money;
b_data[login[1]][data[login[1]].task].balance =
b_data[login[1]][data[login[1]].task-1].balance+money;
b_data[login[1]][data[login[1]].task].type = 3;
data[login[1]].task++;
```

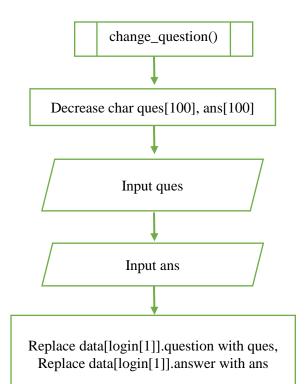












Implementation

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#define _100 100
#define _1000 1000
int length = 0;
int login[2] = \{0,0\};
struct account {
  int task;
  int number;
  char name[_100];
  char email[_100];
  char answer[_1000];
  char password[_100];
  char question[_1000];
};
* type 1 = \text{send}
* type 2 = received
* type 3 = deposite
* type 4 = withdraw
struct balance {
  int balance;
  int amount;
  int type;
  char date[_100];
};
struct account data[100] = \{0\};
```

```
struct balance b_{data}[100][100] = \{0\};
int home() {
 int c = 0;
 **************\n");
 printf("*\t\t\tWelcome to Bangladesh Bank\t\t\t\t");
 *************\n");
 printf("*\t\t\t\t\t\t\t\t\t'\t'\t'\t');
 printf("*\t1. Sign in to your account\t\t\t\t\t\t\t\n");
 printf("*\t2. Create a new account\t\t\t\t\t\t\t\t\t\n");
 printf("*\t3. Forgot password\t\t\t\t\t\t\t\n");
 printf("*\t4. Exit the Application\t\t\t\t\t\t\t\t\n");
  printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\tEnter your choice: ");
 fflush(stdin);
 scanf("%d", &c);
 if (c<1 \parallel c>4) c=-1;
 if(c==4) c=0;
 return c;
}
int initUser() {
 int c = 0;
 *************\n");
 printf("*\t\t\tWelcome to Bangladesh Bank\t\t\t\t");
 ************\n");
 printf("*\tHi, \%s\n*\tA/C: \%d\t\t\t\n", data[login[1]].name,
data[login[1]].number);
 printf("\033[0;32m");
 printf("\tManage Funds\t\t\t\t\t\t\t\t");
  printf("\033[0m");
 printf("*\n*");
  printf("\033[0;32m");
 printf("\t----\t\t\t\t\t\t\t\t\");
```

```
printf("\033[0m");
  printf("*\n");
  printf("*\t1. Check your account Balance\t\t\t\t\t\t\n");
  printf("*\t2. Check your account Statement\t\t\t\t\t\t\t\t\n");
  printf("*\t3. Deposite money\t\t\t\t\t\t\t\t\n");
  printf("*\t4. Send money\t\t\t\t\t\t\t\t\t\n");
  printf("*\t5. Withdraw money\t\t\t\t\t\t\t\t\n");
  printf("\033[0;32m");
  printf("\tManage Account\t\t\t\t\t\t\t\t");
  printf("\033[0m");
  printf("*\n*");
  printf("\033[0;32m");
  printf("\t----\t\t\t\t\t\t\t\t\t");
  printf("\033[0m");
  printf("*\n");
  printf("*\t6. View your profile\t\t\t\t\t\t\t\t\n");
  printf("*\t7. Change your account name\t\t\t\t\t\t\t\n");
  printf("*\t8. Change your password\t\t\t\t\t\t\t\t\t\n");
  printf("*\t9. Change your Security Question\t\t\t\t\t\n");
  printf("*\t10. Logout\t\t\t\t\t\t\t\t\");
  printf("*\t11. Exit the Application\t\t\t\t\t\t\n");
  printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
  printf("*\tEnter your choice: ");
  fflush(stdin);
  scanf("%d", &c);
  if (c<1 \parallel c>11) c=-1;
  if(c==11) c=0;
  else c += 3;
  return c;
int signIn() {
  login[0] = 0;
  char e[100], p[100];
  ******************\n");
  printf("*\t\t\ Enter (q) to exit \t\t\t\n");
  ************\n");
```

```
printf("*\tEnter your Email: ");
 fflush(stdin);
 gets(e);
 if (strcmp(e, "q")==0)
   return 0;
 printf("*\tEnter your Password: ");
 gets(p);
 if (strcmp(p, "q")==0)
   return 0;
 for (int i = 0; i < 100; i++) {
   if (strcmp(e, data[i].email)==0 && strcmp(p, data[i].password)==0) {
     login[0] = 1;
     login[1] = i;
     break;
 if (\log \ln[0] == 0) {
   system("cls");
   **************\n");
   printf("*\t\t\t\t\t\t\t\t\t\t\t\n");
   printf("*\t\t\tWrong Email or Password\t\t\t\t\t\n");
   printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
   signIn();
 return 0;
int signUp() {
 char vp[100];
 struct account temp;
 ************\n");
 printf("*\t\t\t Create a new account \t\t\t*\n");
 **************\n");
 printf("*\t\tEnter (q) to exit\t\t\t\t\*\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\n");
```

```
printf("*\tEnter your Name: ");
fflush(stdin);
gets(temp.name);
if (strcmp(temp.name, "q")==0)
  return 0;
printf("*\tEnter your Email: ");
gets(temp.email);
if (strcmp(temp.email, "q")==0)
  return 0;
printf("*\tEnter your Security Question: ");
gets(temp.question);
if (strcmp(temp.question, "q")==0)
  return 0;
printf("*\tEnter your Answer: ");
gets(temp.answer);
if (strcmp(temp.answer, "q")==0)
  return 0;
printf("*\tEnter your password: ");
gets(temp.password);
if (strcmp(temp.password, "q")==0)
  return 0;
printf("*\tEnter your password again: ");
gets(vp);
if (strcmp(vp, "q")==0)
  return 0;
while (strcmp(temp.password, vp)) {
  printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
  printf("*\t");
  printf("\033[0;31m");
  printf("Password mismatch! Try again.");
  printf("\033[0m");
  printf("\t\t\t\t\t");
  printf("*\tEnter your password: ");
  gets(temp.password);
  if (strcmp(temp.password, "q")==0)
  return 0;
  printf("*\tEnter your password again: ");
  gets(vp);
  if (strcmp(vp, "q")==0)
```

```
return 0;
  for (int i = 0; i < length; i++) {
   if (strcmp(temp.email, data[i].email)==0) {
      char c;
      printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
     printf("\n*\tEmail already exist\t\t\t\t\t\t\t\t\n");
     printf("\n*\tWant to try again? (y or n):");
      scanf("%c", &c);
     if (c=='y' || c=='Y') {
        system("cls");
        signUp();
     return 0;
  temp.task = 0;
  temp.number = 1001+length;
  data[length] = temp;
  login[0] = 1;
 login[1] = length;
  length++;
  return 0;
int forgot() {
  int pos = -1;
  char email[100], ans[100];
  ****************\n");
  printf("*\t\t\ Recover your account
                                  \t\t\t^*\n");
  **************\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\t\n");
  printf("*\t\tEnter (q) to exit\t\t\t\t\");
  printf("*\tEnter your Email: ");
  fflush(stdin);
```

}

```
gets(email);
if (strcmp(email, "q")==0)
  return 0;
for (int i = 0; i < length; i++) {
  if (strcmp(email, data[i].email)==0) {
     printf("*\t %s: ", data[i].question);
     fflush(stdin);
     gets(ans);
     if (strcmp(ans, data[i].answer)==0) {
       char pass[_100], vp[_100];
       printf("*\tEnter your password: ");
       gets(pass);
       if (strcmp(pass, "q")==0)
          return 0;
       printf("*\tEnter your password again: ");
       gets(vp);
       if (strcmp(vp, "q")==0)
          return 0;
       while (strcmp(pass, vp)) {
          printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
          printf("*\t");
          printf("\033[0;31m");
          printf("Password mismatch! Try again.");
          printf("\033[0m");
          printf("t\t\t\t\t");
          printf("*\tEnter your password: ");
          gets(pass);
          if (strcmp(pass, "q")==0)
          return 0;
          printf("*\tEnter your password again: ");
          gets(vp);
          if (strcmp(vp, "q")==0)
          return 0;
       strncpy(data[i].password, pass, _100);
     return 0;
  }
```

```
char c;
 printf("*\tNo Account found with %s\n", email);
 printf("\n*\tWant to try again? (y or n):");
 scanf("%c", &c);
 if (c=='y' || c=='Y') {
   system("cls");
  forgot();
}
void check_balance() {
 ************\n");
 printf("*\t\tt\t\tEnter (q) to exit\t\t\t\t");
 *************\n");
 printf("*\tYour Current balance is %d\n", data[login[1]].task > 0 ?
b_data[login[1]][data[login[1]].task-1].balance : 0);
 printf("*\tPress any key to continue...");
 char c;
 fflush(stdin);
 scanf("%c", &c);
void check_statement() {
 *************\n");
 printf("*\t\t\Satement Generated \t\t\t*\n");
 ************\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n*");
 printf("*");
 printf("\033[0;31m");
 printf("\t-----\t\t");
 printf("\033[0m");
```

```
printf("*\n*");
  printf("\033[0;31m");
  printf("\t|\ttype\t|\tamount\t|\tbalance\t|\t\t");
  printf("\033[0m");
  printf("*\n*");
  printf("\033[0;31m");
  printf("\t-----\t\t");
  printf("\033[0m");
  printf("*\n");
  int limit = data[login[1]].task;
  for (int i = 0; i < limit; i++) {
    switch (b_data[login[1]][i].type) {
      case 1:
        b_data[login[1]][i].balance);
        break;
      case 2:
        printf("*\t| Received |\t%d\t|\t%d\t|\t\t*",
b_data[login[1]][i].amount, b_data[login[1]][i].balance);
        break:
      case 3:
        printf("*\t| Deposited |\t%d\t|\t%d\t|\t\t*",
b_data[login[1]][i].amount, b_data[login[1]][i].balance);
        break:
      case 4:
        printf("*\t| Withdraw |\t%d\t|\t%d\t|\t\t*",
b_data[login[1]][i].amount, b_data[login[1]][i].balance);
        break;
      default:
        break;
    printf("\n^*\t-----\t^t\t^*\n");
  printf("\033[0;32m");
  printf("\tYour Current balance is: %d\n", data[login[1]].task > 0?
b_data[login[1]][data[login[1]].task-1].balance: 0);
  printf("\033[0m");
  printf("*\t\t\t\t\t\t\t\t\t\t\n");
  printf("*\tPress any key to continue...");
```

```
char c;
 fflush(stdin);
 scanf("%c", &c);
void deposite_money() {
 int money;
 **************\n");
 printf("*\t \in (0) to exit\t \in (n');
 ***************\n");
 printf("*\tEnter an amount to deposite: ");
 scanf("%d", &money);
 if (money>0) {
   b_data[login[1]][data[login[1]].task].amount = money;
   b_data[login[1]][data[login[1]].task].balance =
b_data[login[1]][data[login[1]].task-1].balance+money;
   b_data[login[1]][data[login[1]].task].type = 3;
   data[login[1]].task++;
void send_money() {
 int pos=-1, num;
 ************\n");
 printf("*\t\t Send Money \t\t\t");
 **************\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\t\tEnter(q) to exit\t\t\t");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\tEnter acccount number: ");
 fflush(stdin);
 scanf("%d", &num);
 for (int x=0; x<length; x++) {
   if (data[x].number == num) {
     pos = x;
```

```
break;
 if (pos<0) {
   char c;
   system("cls");
   **************\n");
   printf("*\t\t Send Money \t\t\t");
   *******************\n");
   printf("*\t\t\t\t\t\t\t\t\t\t\t\n");
   printf("*\t\tEnter(q) to exit\t\t\t");
   printf("*\tNo Account found with %d\n", num);
   printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
   printf("\n*\tWant to try again? (y or n):");
   fflush(stdin);
   scanf("%c", &c);
   if (c=='y' || c=='Y') {
     system("cls");
     send_money();
 } else if (pos==login[1]) {
   char c;
   system("cls");
   ******************\n");
   printf("*\t\t Send Money \t\t\t");
   *******************\n");
   printf("*\t\tEnter (q) to exit\t\t\t\t*\n");
   printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
   printf("*\t\tCannot send money to your own account \t\t*\n");
   printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
   printf("\n*\tWant to try again? (y or n):");
   fflush(stdin);
   scanf("%c", &c);
```

```
if (c=='y' || c=='Y') {
      system("cls");
     send_money();
  } else {
   int amount;
    struct balance temp;
    system("cls");
   ********************\n");
   printf("*\t\t Send Money \t\t\t");
   *****************\n");
   printf("*\t\tEnter (q) to exit\t\t\t\t\n");
   printf("*\tAccount holder name: %s", data[pos].name);
   printf("\n*\tEnter amount: ");
   fflush(stdin);
    scanf("%d", &amount);
    if (data[login[1]].task>0 && b_data[login[1]][data[login[1]].task-
1].balance>=amount) {
     if (data[pos].task > 0) {
       b_data[pos][data[pos].task].balance = b_data[pos][data[pos].task-
1].balance+amount;
      } else {
        b_data[pos][data[pos].task].balance = amount;
      b_data[pos][data[pos].task].amount = amount;
      b_data[login[1]][data[login[1]].task].balance =
b_data[login[1]][data[login[1]].task-1].balance-amount;
      b_data[login[1]][data[login[1]].task].amount = amount;
      b_data[login[1]][data[login[1]].task].type = 1;
      b_data[pos][data[pos].task].type = 2;
     data[login[1]].task++;
      data[pos].task++;
    } else {
      char c;
      system("cls");
```

```
*******************\n");
    printf("*\t\t Send Money \t\t\t");
    *****************\n");
    printf("*\t\tEnter(q) to exit\t\t\t");
    printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
    printf("\n*\t\t Insufficient funds.\t\t\t\t\*\n");
     printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
    printf("*\tWant to try again? (y or n): ");
     fflush(stdin);
    scanf("%c", &c);
    if (c=='y' || c=='Y') {
      system("cls");
      send_money();
     }
void withdraw_money() {
 int money;
 ************\n");
 printf("*\t\t Withdraw Money \t\t\t");
 *************\n");
 printf("*\t\tEnter(q) to exit\t\t\t");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\tEnter an amount to withdraw: ");
 scanf("%d", &money);
 if (money>0) {
   if (data[login[1]].task > 0 \&\& b_data[login[1]][data[login[1]].task-
1].balance >= money) {
     b_data[login[1]][data[login[1]].task].balance =
b_data[login[1]][data[login[1]].task-1].balance-money;
```

```
b_data[login[1]][data[login[1]].task].amount = money;
     b_data[login[1]][data[login[1]].task].type = 4;
     data[login[1]].task++;
   } else {
     char c;
     system("cls");
     ******************\n");
     printf("*\t\t\ Withdraw Money
                                 \t \t \t \n'');
     *******************\n");
     printf("*\t\tEnter(q) to exit\t\t\t");
     printf("*\t\t\t\t\t\t\t\t\t\t\t\n");
     printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
     printf("\n*\t\t Insufficient funds.\t\t\t\t*\n");
     printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
     printf("*\tWant to try again? (y or n): ");
     fflush(stdin);
     scanf("%c", &c);
     if (c=='y' || c=='Y') {
       system("cls");
       withdraw_money();
void view_profile() {
 *****************\n");
 printf("*\t\t\tProfile\t\t\t\t*\n");
 *************\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\tName: %s\n", data[login[1]].name);
 printf("*\tEmail: %s\n", data[login[1]].email);
 printf("*\tQuestion: %s\n", data[login[1]].question);
 printf("*\tAnswer: %s\n", data[login[1]].answer);
```

```
printf("*\tPress any key to continue...");
 char c;
 fflush(stdin);
 scanf("%c", &c);
}
void change_name() {
 char name[_100];
 ************\n");
 printf("*\t\t\ Change Name \t\t\t\n");
 ************\n");
 printf("*\t\tEnter (q) to exit\t\t\t\t\");
 printf("*\tYour name is: %s\n", data[login[1]].name);
 printf("*\tEnter your currect name: ");
 fflush(stdin);
 gets(name);
 strncpy(data[login[1]].name, name, _100);
int change_password() {
 char pass[_100], vp[_100];
 ************\n");
 printf("*\t\t\ Change Name \t\t\t*\n");
 **************\n");
 printf("*\t\tEnter (q) to exit\t\t\t\t\*\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
 printf("*\tEnter your password: ");
 fflush(stdin);
 gets(pass);
```

```
if (strcmp(pass, "q")==0)
    return 0;
  printf("*\tEnter your password again: ");
  fflush(stdin);
  gets(vp);
  if (strcmp(vp, "q")==0)
    return 0;
  while (strcmp(pass, vp)) {
    printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
    printf("*\t");
    printf("\033[0;31m");
    printf("Password mismatch! Try again.");
    printf("\033[0m");
    printf("\t\t\t\t\t");
    printf("*\tEnter your password: ");
    fflush(stdin);
    gets(pass);
    if (strcmp(pass, "q")==0)
      return 0;
    printf("*\tEnter your password again: ");
    fflush(stdin);
    gets(vp);
    if (strcmp(vp, "q")==0)
      return 0;
  strncpy(data[login[1]].password, pass, _100);
void change_question() {
  char ques[_100], ans[_100];
  ***************\n");
  printf("*\t\tChange Security Question\t\t\t*\n");
  **************\n");
  printf("*\t\tEnter (q) to exit\t\t\t\t\t");
  printf("*\t\t\t\t\t\t\t\t\t\t\t\t\n");
  printf("*\t\t\t\t\t\t\t\t\t\t\t\n");
```

```
printf("*\tEnter your question: ");
  fflush(stdin);
  gets(ques);
  printf("*\tEnter your answer: ");
  fflush(stdin);
  gets(ans);
  strncpy(data[login[1]].question, ques, _1000);
  strncpy(data[login[1]].answer, ans, _1000);
}
int readData() {
  FILE* account_file = fopen("account.txt", "r");
  int i = 0;
  while (fscanf(account_file, "%d %d %s %s %s %s %s", &data[i].task,
&data[i].number,
   &data[i].name, &data[i].email, &data[i].answer, &data[i].password,
&data[i].question)) {
     if (data[i].number==0)
       return 0;
     i++;
  length = i+1;
char* int_to_string(int num) {
  char temp[10] = {""};
  static char str[100] = {""};
  while (num) {
     temp[0] = (num\%10)+'0';
     strcat(str, temp);
     num=num/10;
  }
  strrev(str);
  return str;
}
void saveData() {
  int i, j;
  FILE *account_file = fopen("account.txt", "w");
  FILE *balance_file = fopen("balance_file.txt", "w");
```

```
for (i = 0; i < 100; i++)
     fprintf(account_file, "%d %d %s %s %s %s %s\n", data[i].task,
data[i].number,
     data[i].name, data[i].email, data[i].answer, data[i].password,
data[i].question);
    for(i = 0; i < data[i].task; i++) {
       fprintf(balance_file, "%d %d %d %s", b_data[i][j].balance,
          b_data[i][j].amount, b_data[i][j].type, b_data[i][j].date);
     }
  fclose(account_file);
  char a;
  getc(a);
int main() {
  readData();
  int select = home();
  while (select) {
     system("cls");
     switch (select) {
       case 1:
          signIn();
          break;
       case 2:
          signUp();
          break;
       case 3:
          forgot();
          break;
       case 4:
          check_balance();
          break;
       case 5:
          check_statement();
          break;
       case 6:
          deposite_money();
          break;
       case 7:
```

```
send_money();
       break;
     case 8:
       withdraw_money();
       break:
     case 9:
       view_profile();
       break:
     case 10:
       change_name();
       break;
     case 11:
       change_password();
       break;
     case 12:
       change_question();
       break;
     case 13:
       login[0] = 0;
       break;
     default:
       printf("*\t\tWrong choice\t\t\*\n");
       break:
   }
   system("cls");
   if (\log \ln[0]==1)
     select = initUser();
   else select = home();
   saveData();
 *******************\n");
 printf("*\t\t\t); and you for using our application\t\t\t\t");
 *************\n\n");
 char a;
 scanf("%c", &a);
 return 0;
```

Screenshots

1. Home Page

2. Sign In Page

3. Create account page

4. Forgot password page

5. User Dashboard Page

```
*****************
                   Welcome to Bangladesh Bank
**************************
      Hi, Alim
      A/C: 1001
      1. Check your account Balance
      2. Check your account Statement
      3. Deposite money
      4. Send money
      5. Withdraw money
      Manage Account
      6. View your profile
      7. Change your account name
      8. Change your password
      9. Change your Security Question
*
      10. Logout
      11. Exit the Application
      Enter your choice:
```

6. Check account balance

7. Check Statement

8. Deposite money

9. Send money

10. Withdraw money

11. View Profile

12. Change account name

13. Change password

14. Change security question

Learning Outcome

The Bank Management System is designed for users to create and login to a bank account. Send, deposite, withdraw money without human interaction.

From this assignment, I have learnt to implement a few C concepts in the future projects such as functions, switch statement and do...while statement, arrays, pointers and structures in the program. I have also learnt to create flow charts for explaining the program