```
// C program to implement
// the above approach
#include <conio.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <windows.h>
// Declaring all the functions
void checkbalance(char*);
void transfermoney(void);
void display(char*);
void person(char*);
void login(void);
void loginsu(void);
void account(void);
void accountcreated(void);
void afterlogin(void);
void logout(void);
// Declaring gotoxy
// function for setting
// cursor position
void gotoxy(int x, int y)
  COORD c;
  c.X = x;
  c.Y = y;
```

```
SetConsoleCursorPosition(
    GetStdHandle(STD_OUTPUT_HANDLE), c);
}
// Creating a structure to store
// data of the user
struct pass {
  char username[50];
  int date, month, year;
  char pnumber[15];
  char adharnum[20];
  char fname[20];
  char Iname[20];
  char fathname[20];
  char mothname[20];
  char address[50];
  char typeaccount[20];
};
// Structure to keep track
// of amount transfer
struct money {
  char usernameto[50];
  char userpersonfrom[50];
  long int money1;
};
struct userpass {
```

```
char password[50];
};
// Driver Code
int main()
  int i, a, b, choice;
  int passwordlength;
  gotoxy(20, 3);
  // Creating a Main
  // menu for the user
  printf("WELCOME TO BANK ACCOUNT SYSTEM\n\n");
  gotoxy(18, 5);
  printf("*********");
  gotoxy(25, 7);
  printf("DEVELOPER-Naman kumar");
  gotoxy(20, 10);
  printf("1.... CREATE A BANK ACCOUNT");
  gotoxy(20, 12);
  printf("2.... ALREADY A USER? SIGN IN");
  gotoxy(20, 14);
  printf("3.... EXIT\n\n");
```

```
printf("\n\nENTER YOUR CHOICE..");
  scanf("%d", &choice);
  switch (choice) {
  case 1:
    system("cls");
    printf("\n\n USERNAME 50 CHARACTERS MAX!!");
    printf("\n\n PASSWORD 50 CHARACTERS MAX!!");
    account();
    break;
  case 2:
    login();
    break;
  case 3:
    exit(0);
    break;
    getch();
 }
// Function to create accounts
// of users
void account(void)
  char password[20];
```

}

{

```
int passwordlength, i, seek = 0;
char ch;
FILE *fp, *fu;
struct pass u1;
struct userpass p1;
struct userpass u2;
// Opening file to
// write data of a user
fp = fopen("username.txt", "ab");
// Inputs
system("cls");
printf("\n\n!!!!!CREATE ACCOUNT!!!!!");
printf("\n\nFIRST NAME..");
scanf("%s", &u1.fname);
printf("\n\n\nLAST NAME..");
scanf("%s", &u1.Iname);
printf("\n\nFATHER's NAME..");
scanf("%s", &u1.fathname);
printf("\n\nMOTHER's NAME..");
scanf("%s", &u1.mothname);
printf("\n\nADDRESS..");
```

```
scanf("%s", &u1.address);
printf("\n\nACCOUNT TYPE");
scanf("%s", &u1.typeaccount);
printf("\n\nDATE OF BIRTH..");
printf("\nDATE-");
scanf("%d", &u1.date);
printf("\nMONTH-");
scanf("%d", &u1.month);
printf("\nYEAR-");
scanf("%d", &u1.year);
printf("\n\nADHAR NUMBER");
scanf("%s", u1.adharnum);
printf("\n\nPHONE NUMBER");
scanf("%s", u1.pnumber);
printf("\n\nUSERNAME.. ");
scanf("%s", &u1.username);
printf("\n\nPASSWORD..");
// Taking password in the form of
// stars
for (i = 0; i < 50; i++) {
  ch = getch();
  if (ch!= 13) {
```

```
password[i] = ch;
      ch = '*';
      printf("%c", ch);
    }
    else
      break;
  }
  // Writing to the file
  fwrite(&u1, sizeof(u1),
      1, fp);
  // Closing file
  fclose(fp);
  // Calling another function
  // after successful creation
  // of account
  accountcreated();
// Successful account creation
void accountcreated(void)
  int i;
  char ch;
  system("cls");
  printf(
    "PLEASE WAIT....\n\nYOUR DATA IS PROCESSING....");
```

}

{

```
for (i = 0; i < 200000000; i++) {
    i++;
    i--;
  }
  gotoxy(30, 10);
  printf("ACCOUNT CREATED SUCCESSFULLY....");
  gotoxy(0, 20);
  printf("Press enter to login");
  getch();
  login();
}
// Login function to check
// the username of the user
void login(void)
  system("cls");
  char username[50];
  char password[50];
  int i, j, k;
  char ch;
  FILE *fp, *fu;
  struct pass u1;
```

```
struct userpass u2;
// Opening file of
// user data
fp = fopen("username.txt",
      "rb");
if (fp == NULL) {
  printf("ERROR IN OPENING FILE");
}
gotoxy(34, 2);
printf(" ACCOUNT LOGIN ");
gotoxy(7, 5);
printf("************
   "*********");
gotoxy(35, 10);
printf("==== LOG IN ====");
// Take input
gotoxy(35, 12);
printf("USERNAME.. ");
scanf("%s", &username);
gotoxy(35, 14);
printf("PASSWORD..");
// Input the password
for (i = 0; i < 50; i++) {
```

```
ch = getch();
    if (ch != 13) {
      password[i] = ch;
      ch = '*';
      printf("%c", ch);
    }
    else
      break;
  }
  // Checking if username
  // exists in the file or not
  while (fread(&u1, sizeof(u1),
         1, fp)) {
    if (strcmp(username,
          u1.username)
      == 0) {
      loginsu();
      display(username);
    }
  }
  // Closing the file
  fclose(fp);
// Redirect after
// successful login
```

}

```
void loginsu(void)
{
  int i;
  FILE* fp;
  struct pass u1;
  system("cls");
  printf("Fetching account details.....\n");
  for (i = 0; i < 20000; i++) {
    i++;
    i--;
  }
  gotoxy(30, 10);
  printf("LOGIN SUCCESSFUL....");
  gotoxy(0, 20);
  printf("Press enter to continue");
  getch();
}
// Display function to show the
// data of the user on screen
void display(char username1[])
{
  system("cls");
  FILE* fp;
  int choice, i;
  fp = fopen("username.txt", "rb");
  struct pass u1;
```

```
if (fp == NULL) {
  printf("error in opening file");
}
while (fread(&u1, sizeof(u1),
       1, fp)) {
  if (strcmp(username1,
        u1.username)
    == 0) {
    gotoxy(30, 1);
    printf("WELCOME, %s %s",
        u1.fname, u1.lname);
    gotoxy(28, 2);
    printf(".....");
    gotoxy(55, 6);
    printf("==== YOUR ACCOUNT INFO ====");
    gotoxy(55, 8);
    printf("*******");
    gotoxy(55, 10);
    printf("NAME..%s %s", u1.fname,
        u1.lname);
    gotoxy(55, 12);
    printf("FATHER's NAME..%s %s",
        u1.fathname,
        u1.lname);
    gotoxy(55, 14);
```

```
printf("MOTHER's NAME..%s",
        u1.mothname);
    gotoxy(55, 16);
    printf("ADHAR CARD NUMBER..%s",
        u1.adharnum);
    gotoxy(55, 18);
    printf("MOBILE NUMBER..%s",
        u1.pnumber);
    gotoxy(55, 20);
    printf("DATE OF BIRTH.. %d-%d-%d",
        u1.date, u1.month, u1.year);
    gotoxy(55, 22);
    printf("ADDRESS..%s", u1.address);
    gotoxy(55, 24);
    printf("ACCOUNT TYPE..%s",
        u1.typeaccount);
  }
fclose(fp);
gotoxy(0, 6);
// Menu to perform different
```

}

```
// actions by user
printf(" HOME ");
gotoxy(0, 7);
printf("**");
gotoxy(0, 9);
printf(" 1....CHECK BALANCE");
gotoxy(0, 11);
printf(" 2....TRANSFER MONEY");
gotoxy(0, 13);
printf(" 3....LOG OUT\n\n");
gotoxy(0, 15);
printf(" 4....EXIT\n\n");
printf(" ENTER YOUR CHOICES..");
scanf("%d", &choice);
switch (choice) {
case 1:
  checkbalance(username1);
  break;
case 2:
  transfermoney();
  break;
case 3:
  logout();
  login();
  break;
```

```
case 4:
    exit(0);
    break;
  }
}
// Function to transfer
// money from one user to
// another
void transfermoney(void)
{
  int i, j;
  FILE *fm, *fp;
  struct pass u1;
  struct money m1;
  char usernamet[20];
  char usernamep[20];
  system("cls");
  // Opening file in read mode to
  // read user's username
  fp = fopen("username.txt", "rb");
  // Creating a another file
  // to write amount along with
  // username to which amount
  // is going to be transfered
  fm = fopen("mon.txt", "ab");
```

```
gotoxy(33, 4);
printf("---- TRANSFER MONEY ----");
gotoxy(33, 5);
printf("=======");
gotoxy(33, 11);
printf("FROM (your username).. ");
scanf("%s", &usernamet);
gotoxy(33, 13);
printf(" TO (username of person)..");
scanf("%s", &usernamep);
// Checking for username if it
// is present in file or not
while (fread(&u1, sizeof(u1),
       1, fp))
{
  if (strcmp(usernamep,
        u1.username)
    == 0) {
    strcpy(m1.usernameto,
        u1.username);
    strcpy(m1.userpersonfrom,
        usernamet);
  }
}
```

```
gotoxy(33, 16);
// Taking amount input
printf("ENTER THE AMOUNT TO BE TRANSFERED..");
scanf("%d", &m1.money1);
// Writing to the file
fwrite(&m1, sizeof(m1),
   1, fm);
gotoxy(0, 26);
printf(
  "-----");
gotoxy(0, 28);
printf(
  "_____"
  "-----");
gotoxy(0, 29);
printf("transfering amount, Please wait..");
gotoxy(10, 27);
for (i = 0; i < 70; i++) {
 for (j = 0; j < 1200000; j++) {
   j++;
   j--;
 }
```

```
printf("*");
  }
  gotoxy(33, 40);
  printf("AMOUNT SUCCESSFULLY TRANSFERED....");
  getch();
  // Close the files
  fclose(fp);
  fclose(fm);
  // Function to return
  // to the home screen
  display(usernamet);
}
// Function to check balance
// in users account
void checkbalance(char username2[])
{
  system("cls");
  FILE* fm;
  struct money m1;
  char ch;
  int i = 1, summoney = 0;
  // Opening amount file record
  fm = fopen("mon.txt", "rb");
```

```
int k = 5, l = 10;
int m = 30, n = 10;
int u = 60, v = 10;
gotoxy(30, 2);
printf("==== BALANCE DASHBOARD ====");
gotoxy(30, 3);
printf("*******");
gotoxy(k, l);
printf("S no.");
gotoxy(m, n);
printf("TRANSACTION ID");
gotoxy(u, v);
printf("AMOUNT");
// Reading username to
// fetch the correct record
while (fread(&m1, sizeof(m1),
       1, fm)) {
  if (strcmp(username2,
        m1.usernameto)
    == 0) {
    gotoxy(k, ++I);
    printf("%d", i);
    i++;
    gotoxy(m, ++n);
    printf("%s", m1.userpersonfrom);
    gotoxy(u, ++v);
```

```
printf("%d", m1.money1);
      // Adding and
      // finding total money
      summoney = summoney + m1.money1;
    }
  }
  gotoxy(80, 10);
  printf("TOTAL AMOUNT");
  gotoxy(80, 12);
  printf("%d", summoney);
  getch();
 // Closing file after
  // reading it
  fclose(fm);
  display(username2);
// Logout function to bring
// user to the login screen
void logout(void)
  int i, j;
  system("cls");
  printf("please wait, logging out");
```

}

```
for (i = 0; i < 10; i++) {
    for (j = 0; j < 25000000; j++) {
        i++;
        i--;
    }
    printf(".");
}

gotoxy(30, 10);
printf("Sign out successfully..\n");

gotoxy(0, 20);
printf("press any key to continue..");

getch();
}</pre>
```