THE CODE:

```
#include <iostream>
#include <fstream> //FOR FILE HANDLING
#include <string>
#include <conio.h>
#include <stdio.h>
using namespace std;
//CLASS FOR THE DATAS OF USERS
class Data {
     public:
           int accNum;
           string lName;
           string fName;
           string bal;
};
//IO FILES
//ofstream outFile("data.txt",
std::ios base::app);
//ifstream inFile ("data.txt",
std::ios base::app);
//ofstream fileTemp
("datatemp.txt", std::ios base::app);
//ifstream
accFile("accounts.txt",std::ios base::app);
int choice;
//FUNCTIONS
void writeRec(); // TO WRITE THE RECORD
void readRec(); // READ THE RECORD
void searchRec(); // SEARCH THE RECORDS
void editRec();// EDIT A RECORD
void delRec(); // DELETE A RECORD
int main(){
     while(1){
           // it must contain account number,
first name, last name and balance
           cout << "1 - Write Record\n";</pre>
           // read the record using the account
number
           cout << "2 - Read Record\n";</pre>
           // search the record using the account
number
           cout << "3 - Search Record\n";</pre>
           // search using the account number
           cout << "4 - Edit Record\n";</pre>
           // edit record using the account number
           cout << "5 - Delete Record\n";</pre>
```

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// delete record using account number
           cout << "6 - Exit\n\n";</pre>
           cout << "Your Choice: ";</pre>
           cin >> choice;
           system("cls");
           switch(choice) {
                 case 1:
                       writeRec();
                       system("cls");
                       break;
                 case 2:
                       readRec();
                       system("cls");
                       break;
                 case 3:
                       searchRec();
                       system("cls");
                       break;
                 case 4:
                       editRec();
                       system("cls");
                       break;
                 case 5:
                       delRec();
                       break;
                 case 6:
                       system("cls");
                       return 0;
                       break;
                 default:
                       cout << "Invalid key. Please</pre>
Try again!:";
                       system("pause");
                       system("cls");
                       break;
     }
}
void writeRec(){
     ofstream outFile("data.txt",
std::ios base::app);
     ofstream
outaccFile("accounts.txt", std::ios base::app);
     Data info; // CALLING THE CLASS
     //ASKING FOR INPUTS
     cout << "Account number: ";</pre>
     cin >> info.accNum;
     outFile<< info.accNum << endl;</pre>
     outaccFile << info.accNum << endl;</pre>
```

```
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     cout << "First Name: ";</pre>
     cin >> info.fName;
     outFile << info.fName << endl;</pre>
     cout << "Last Name: ";</pre>
     cin >> info.lName;
     outFile << info.lName<< endl;</pre>
     cout << "Balance: ";</pre>
     cin >> info.bal;
     outFile << info.bal<< endl;</pre>
     outFile.close();
}
void readRec() {
     ifstream inFile ("data.txt",
std::ios base::app);
     string line;
     string accNum2;
     cout << "Enter the Account Number: ";</pre>
     cin >> accNum2;
     // THIS WILL SEARCH THOURGH EVERY LINE
     // UNTIL IT FOUNDS THE ACC NUMBER
     // AFTER 3 LINES OF ACC NUMBER,
     // IT WILL BE OUTPUTED
     while (!inFile.eof()) {
           inFile >> line;
            if(accNum2 == line){
            for (int i=0; i < 3; i++) {
                  inFile >> line;
                  if(i==0)
                 cout << "First Name: " << line <<</pre>
endl;
                  else if (i==1)
                  cout << "Last Name: " << line <<</pre>
endl;
                  else
                  cout << "Balance: " << line <<</pre>
endl;
                  system("pause");
     inFile.close();
void searchRec() {
     ifstream
accFile("accounts.txt",std::ios_base::app);
```

cout << "Enter the Account Number: ";</pre>

string accNum2;
string search;

```
cin >> search;
     // WILL SEARCH THOURGH EVERY LINE IN THE
ACCOUNT.TXT
     // THEN IT WILL CHECK FOR EQUALITY
     while (!accFile.eof()){
           accFile >> accNum2;
           if (search == accNum2) {
                 cout << "Record Found!\n";</pre>
                 system("pause");
                 break;
            } else if (accFile.eof()) {
                 cout << "Record Not Found!\n";</pre>
                 system("pause");
                 break;
     accFile.close();
void editRec(){
     ifstream inFile ("data.txt",
std::ios base::app);
     ofstream fileTemp
("datatemp.txt", std::ios base::app);
     Data info2;
     string line1;
     string accNum3;
     string strTemp[3];
     // ASKING FOR NEW INPUTS
     cout << "Enter the Account Number: ";</pre>
     cin >> accNum3;
     string strReplace[3];
     string strNew[3];
     cout << "New First Name: ";</pre>
     cin >> info2.fName;
     strNew[0] = info2.fName;
     cout << "New Last Name: ";</pre>
     cin >> info2.lName;
     strNew[1] = info2.lName;
     cout << "New Balance: ";</pre>
     cin >> info2.bal;
     strNew[2] = info2.bal;
     // THIS WILL SEARCH THE TXT FILE
     // AND THEN WILL FIND THE ACC NUMBER
     // AND AFTER THE 3 LINES OF ACC NUM,
      // IT WILL BE EDITED AND
     // ALL THE NEW DATA WILL BE SAVED TO A NEW
TXT FILE
      for (int i = 0; i < 3; i ++) {
           strReplace[i] == strNew[i];
```

```
string line2;
     while (!inFile.eof()) {
           inFile >> line2;
      if(accNum3 == line2){
           fileTemp << accNum3 << endl;</pre>
           for (int i=0; i < 3; i++) {
                 fileTemp << strNew[i] << endl;</pre>
                 inFile >> line2;
            }
      }
     else if (accNum3 != line2) {
           fileTemp << line2 << endl;</pre>
      }
      }
     // TO RENAME AND REMOVE THE TXT FILE
     inFile.close();
     fileTemp.close();
     system("del.\\data.txt");
     system("ren.\\datatemp.txt data.txt");
     cout << "Successfully edited the</pre>
account!\n";
     system("pause");
void delRec() {
     //to overwrite accounts.txt
      ifstream
accFile("accounts.txt",std::ios base::app);
     ofstream
outaccFile("accountstemp.txt",std::ios_base::app);
     //to also overwrite data.txt
     ifstream inFile ("data.txt",
std::ios base::app);
     ofstream fileTemp
("datatemp.txt", std::ios_base::app);
     string line3;
     cout << "Enter Account Number: ";</pre>
     string accNum;
     cin >> accNum;
     while(!inFile.eof()){
           inFile >> line3;
           if(line3==accNum){
                 for (int i = 0; i < 4; i++) {
                       inFile >> line3;
              } fileTemp << line3 << endl;</pre>
      //to delete accnumber in accounts.txt
```

SCREENSHOTS

1. WRITING AD READING:

D:\REPO\Prog2LabFiles\Practical Exam D:\REPO\Prog2LabFiles\Practical E 1 - Write Record 2 - Read Record 1 - Write Record Account number: 123 3 - Search Record 2 - Read Record First Name: Mark 4 - Edit Record 3 - Search Record Last Name: Capili 5 - Delete Record 4 - Edit Record Balance: 99 6 - Exit 5 - Delete Record 6 - Exit Your Choice: 2_ Your Choice: D:\REPO\Prog2LabFiles\Practical Exam\a Enter the Account Number: 123 1 - Write Record Account number: 321 First Name: Mark 2 - Read Record First Name: Meryl Last Name: Capili 3 - Search Record Last Name: Diolola Balance: 99 4 - Edit Record Balance: 88 Press any key to continue . . . _ 5 - Delete Record 6 - Exit Your Choice: 1_ nter the Account Number: 312 Enter the Account Number: 321 irst Name: Rhea First Name: Meryl ast Name: Capili _{ast}Last Name: Diolola

Balance: 88

Press any key to continue . . .

2. SEARCHING IF ACCOUNT NUMBER EXIST:

Enter the Account Number: 123 Record Found! Press any key to continue . . . _

Balance: 44

ress any key to continue . . . _

Enter the Account Number: 444 Record Not Found! Press any key to continue . . .

3. EDITING AND ADDING RECORDS:

Enter the Account Number: 123

New First Name: John New Last Name: Doe New Balance: 78

Successfully edited the account! Press any key to continue . . .

After editing: (used read function)

Enter the Account Number: 123

First Name: John Last Name: Doe Balance: 78

Press any key to continue . . .

Use search if account number 123 is still exist

Enter Account Number: 123

Succesfully Deleted Account: 123

1 - Write Record

2 - Read Record

3 - Search Record

4 - Edit Record

5 - Delete Record

6 - Exit

Your Choice: _

Enter the Account Number: 123 Record Not Found! Press any key to continue . . .

What's happening in the folder while deleting and editing...

