```cpp
#include <iostream>
#include <fstream>
using namespace std;
class stud
{
 int rno;
  char name[20];
  public:
     void add();
     void fetch();
}s;
void stud::add()
{ int ch=1;
 ofstream f;
 f.open("data.txt",ios::app|ios::out);
 do
 { cout<<"\nEnter Roll No. : ";
   cin>>s.rno;
   cout<<"\nEnter Name :";
   cin>>s.name;
   f<<s.rno<<" "<<s.name<<" ";
   cout<<"Want to enter more data?(1/0)";
   cin>>ch;
 }while(ch==1);
 f.close();
}

void stud::fetch()
{
int ch=1,r,flag=0;
 ifstream f1;
 f1.open("data.txt",ios::in);
 do
 {
cout<<"\nEnter Roll No. : ";
  cin>>r;
  while(!f1.eof())
  {  f1>>s.rno>>s.name;
    if(r==s.rno){
       cout<<s.rno<<" "<<s.name<<"\n";
       flag=1;
     }
   }
  if(flag==0)
     cout<<"Not Found!!\n";
   cout<<"Want to fetch more data?(1/0)";
   cin>>ch;
   f1.clear();
   f1.seekg(0,ios::beg);
 }while(ch==1);
 f1.close();
}
int main()
```

```cpp
{int ch;
 cout<<"Roll No. 161210025\n";
 while(ch!=3)
 {
cout<<"1.Add  2.Fetch  3.Exit\n";
  cin>>ch;
  switch(ch)
  {case 1: s.add();
         break;
     case 2: s.fetch();
         break;
     case 3: break;
     default: cout<<"Wrong choice!!";
          break;
  }
 }
 return 0;
}
```

```
Roll No. 161210025
1.Add  2.Fetch  3.Exit
1

Enter Roll No. : 4

Enter Name :Swapnil
Want to enter more data?(1/0)1

Enter Roll No. : 5

Enter Name :Priya
Want to enter more data?(1/0)0
1.Add  2.Fetch  3.Exit
2

Enter Roll No. : 4
4 Swapnil
Want to fetch more data?(1/0)1

Enter Roll No. : 2
2 Mohina
Want to fetch more data?(1/0)0
1.Add  2.Fetch  3.Exit
3

Process returned 0 (0x0)   execution time : 42.661 s
Press any key to continue.
```

data - Notepad

File Edit Format View Help

1 Anjali   2 Mohina   3 Shreyas   4 Swapnil   5 Priya

database.txt file

Select "C:\Users\asus1\Desktop\Sem 4\Semester4\OOPS\fileHandling1.exe"

```
Welcome to my Mini Database!
What do you want to do?
1. Store Details       2. Fetch Details       3. Exit
1
Enter Roll number of user: 161210040
Enter User Name: Sumanjay
What do you want to do?
1. Store Details       2. Fetch Details       3. Exit
1
Enter Roll number of user: 161210025
Enter User Name: Kaushiki
What do you want to do?
1. Store Details       2. Fetch Details       3. Exit
2
Enter Roll Number to fetch details:
161210040
161210040 Sumanjay
What do you want to do?
1. Store Details       2. Fetch Details       3. Exit
3
Exiting!...
Process returned 0 (0x0)   execution time : 31.529 s
Press any key to continue.
```

Output of Mini Database

//C++ Program to store and fetch user details (Name, Roll.. etc) using switch case

```cpp
#include <iostream>
#include <fstream>
using namespace std;
void write()
{
    ofstream ofile;
    string roll, name, data;
    ofile.open("database.txt", ios::out | ios::app);
    cout << "Enter Roll number of user: ";
    cin >> roll;
    cout << "Enter User Name: ";
    cin >> name;
    data = roll + " " + name;
    ofile << data << endl;
    ofile.close();
}

void searchFile()
{   ifstream ifile;
    size_t pos;
    string line,findString;
    cout<<"Enter Roll Number to fetch details: \n";
    cin>>findString;
    ifile.open("database.txt");
    if(ifile.is_open())
    {while(getline(ifile,line))
        {   pos = line.find(findString);
            if(pos!=string::npos)
            {
                cout<<line<<endl;
                break;
            }
        }
    }
}
```

```cpp
//C++ Program to store and fetch user details (Name, Roll.. etc) using switch case


int main()
{
    cout<<"Welcome to my Mini Database!\n";
    int choice;
    do {
        cout << "What do you want to do?\n";
        cout << "1. Store Details" << "\t" << "2. Fetch Details" << "\t" << "3. Exit" << "\n";
        cin >> choice;
        switch (choice) {
        case 1:
            write();
            break;
        case 2:
            searchFile();
            break;
        case 3:
            cout << "Exiting!..." < "\n";
            break;
        }
    }
    while (choice != 3);
}
```