Task 1:

```cpp
#include<iostream>
#include<string>
#include<fstream>
using namespace std;
bool saveDataToFile(string name, long long int rollNum, int CNIC, string degree, string fileName)
{
        ofstream obj;
        obj.open(fileName.c_str(), ios::app);
        obj << name << endl << rollNum << endl << CNIC << endl << degree << endl;
        return 1;
}
bool readAndPrintData(string fileName)
{
        ifstream obj1;
        obj1.open(fileName.c_str());

        while (!obj1.eof())
        {
                obj1 >> fileName;
                cout << fileName << endl;
        }
        return 0;
}
int main()
{
        long long int n;
        string fn;
        cout << "to enter student info enter 1 if not enter any number";
        cin >> n;
        cout << "enter file name" << endl;
        cin >> fn;

        while (n == 1)
        {
                string str, deg;
                long long int rn, cn;
                cout << "enter name " << endl;
                cin >> str;
                cout << "enter roll number" << endl;
                cin >> rn;
                cout << "enter CNIC" << endl;
                cin >> cn;
                cout << "enter degree" << endl;
                cin >> deg;
                cout << saveDataToFile(str, rn, cn, deg, fn);

                cout << "to enter student info enter 1 if not enter any number";
                cin >> n;



        }
        cout << readAndPrintData(fn);
        return 0;


}
```

```
to enter student info enter 1 if not enter any number1
enter file name
a
enter name
muhammad
enter roll number
8813
enter CNIC
12343
enter degree
bcs
1to enter student info enter 1 if not enter any number1
enter name
ali
enter roll number
3255
enter CNIC
351616
enter degree
bse
1to enter student info enter 1 if not enter any number0
sfg
14
465
rewg
ksabn
76
879
klajs
jlba
89
70
kjbas
muhammad
8813
12343
bcs
ali
3255
351616
bse
bse
0
-------------------------------
Process exited after 33.9 seconds with return value 0
Press any key to continue . . .
```

Some data was already stored in file, so it came in the top

Task 2:
```cpp
#include<iostream>
#include<iostream>
#include<string>
#include<fstream>
using namespace std;
int main()
{
        string str, strr;
        cout << "enter the string you want to find";
        cin >> str;

        ifstream rd;
        rd.open("a.text");
        if (rd.is_open())
        {
                cout << "file is open\n";
                while (!rd.eof())
```

```cpp
            {
                    rd >> strr;

                    for (int i = 0; i < str.length(); i++)
                    {
                            for (int j = 0; j < strr.length(); j++)
                            {
                                    if (str[i] == strr[j])
                                    {
                                            if (str[i + 1] == strr[j + 1])
                                            {
                                                    if (str[i + 2] == strr[j + 2])
                                                    {
                                                            cout << strr << endl;
                                                    }
                                            }
                                    }

                            }

                    }
            }

        }
        else
        {
                cout << "file is not open";
        }

}
```



```
C:\Users\f228813\Desktop\Untitled1.exe

enter the string you want to findtop
file is open
Christopher
Kristopher
Cristopher
Christoper
Chistopher
Chirstopher
Khristopher
Christophe
Hristopher
Christophr
Chritopher
```