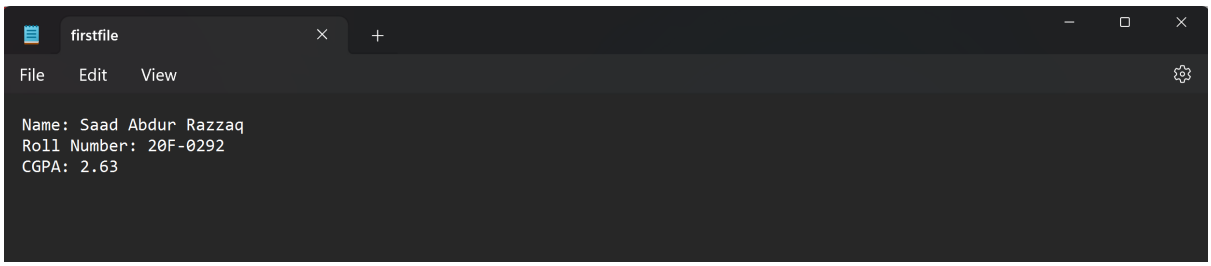
TASK 1:

```
#include <iostream>
#include <fstream>
using namespace std;

int main(){
    ofstream header;
    string name, roll_no;
    double cgpa;
    cout<<"Enter you name: ";
    getline(cin, name);
    cout<<"Enter you roll number: ";
    cin>>roll_no;
    cout<<"Enter you cgpa: ";
    cin>>cgpa;
    header.open("firstfile.txt");
    if(!header){
        cout<<"Error occured while
opening file!\n";
    }
    else{
        header<<"Name: "<<name<<endl;
        header<<"Roll Number:
"<<roll_no<<endl;
```

```
        header<<"CGPA: "<<cgpa<<endl;
        cout<<"\n\n\t\t***DATA
SUCCESSFULLY INPUTTED IN FILE***\n\n";
    }
    header.close();

    return 0;
}
```

OUTPUTS:

```
Enter you name: Saad Abdur Razzaq
Enter you roll number: 20F-0292
Enter you cgpa: 2.63


                ***DATA SUCCESSFULLY INPUTTED IN FILE***
```



TASK 2 (2):

```
#include <iostream>
#include <fstream>
using namespace std;

int main(){
    ifstream header;
    string content;
    header.open("firstfile.txt");
```

```
    if(!header){
        cout<<"Error occured while opening
file!\n";
    }
    else{
        while(!header.eof()){
            getline(header, content);
            cout<<content<<endl;
        }
    }
    header.close();

    return 0;
}
```

OUTPUT:

```
Name: Saad Abdur Razzaq
Roll Number: 20f-0292
CGPA: 2.63
```

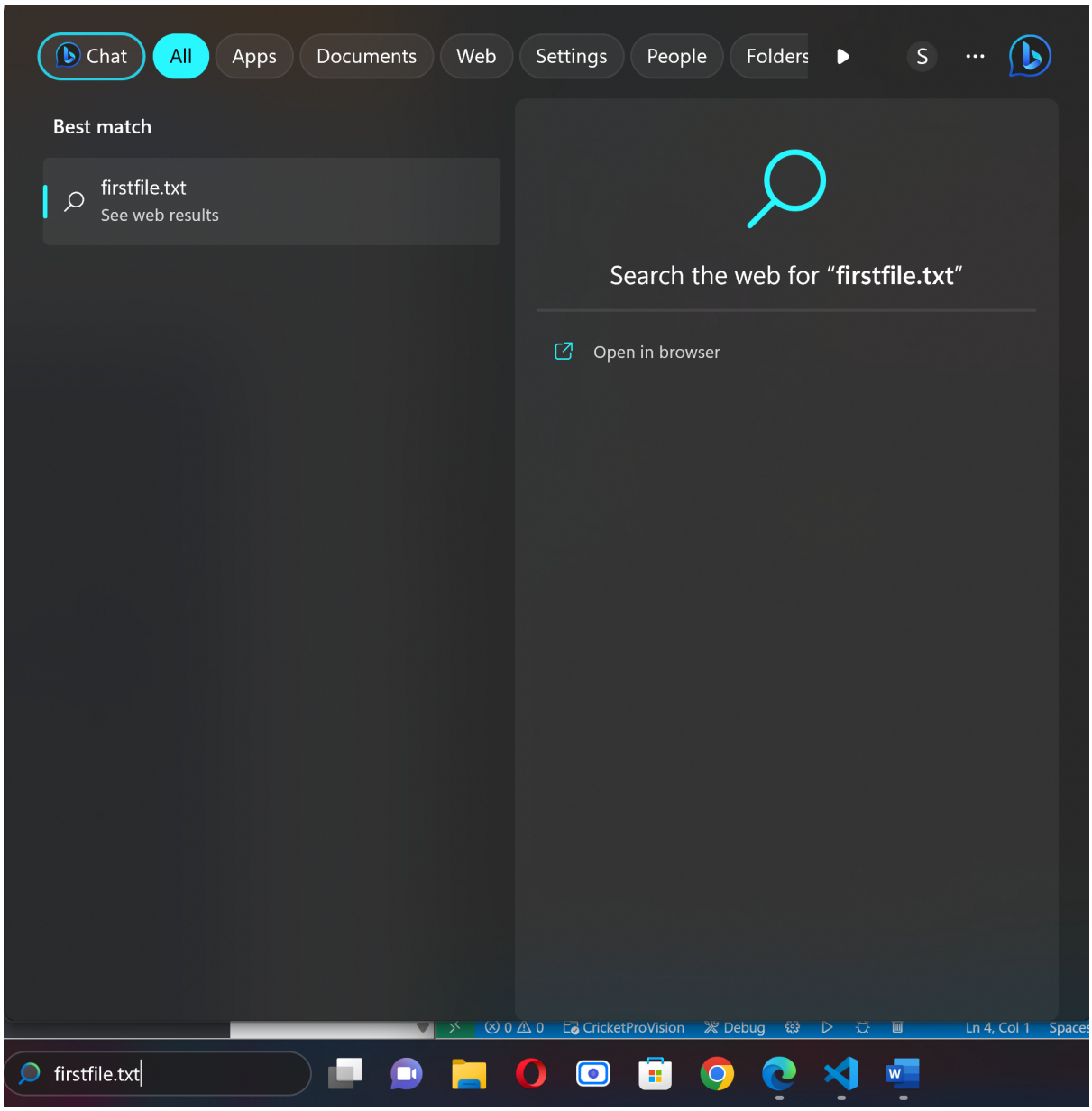
TASK 2 (3):

```
#include <iostream>
using namespace std;

int main(){
    int remove_file = remove("firstfile.txt");
    if(remove_file == 0){
        cout<<"File Deleted Successfully!";
    }
    else if(remove_file != 0){
        cout<<"File Deletion Failed!";
```

```
    }
    return 0;
}
```

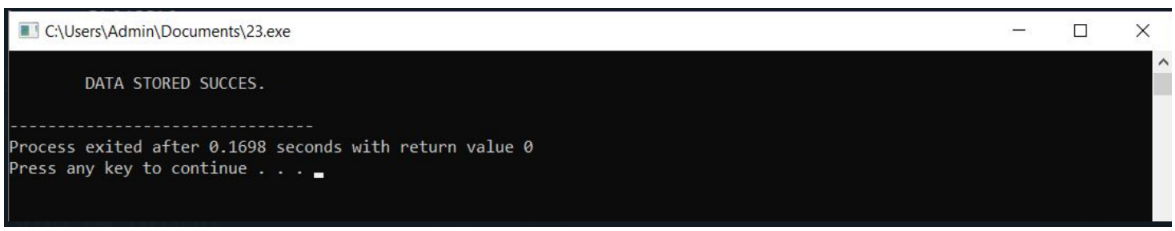
Outputs:

```
                                cd "c:\Users\saadg\Downloads\CricketProVision\" ; if ($?) { g+
 + tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
File Deleted Successfully!
```



TASK 3:

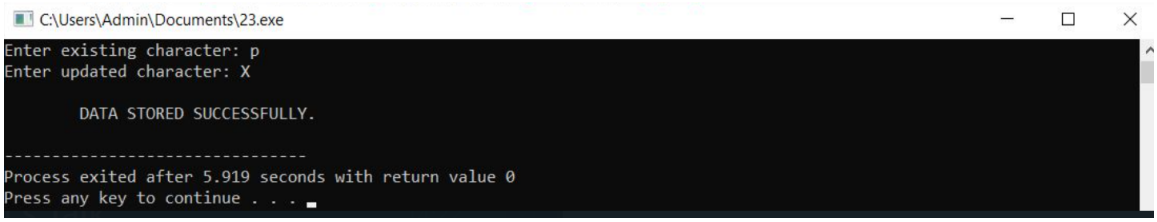
```cpp
#include <iostream>
#include <fstream>
using namespace std;
int main(){
    ofstream handler;
    char random[100];
    int i = 0;
    string character;
    for(int i = 0; i< 100; i++){
        random[i] = rand() % 26 + 65 + rand() % 2 * 32;
    }
    handler.open("dict.txt",ios::out);
    if(!handler){
        cout<<"\nFILE UNABLE TO LOAD\n\n";
    }
    else{
        while(i<=99){
            character = random[i];
            handler << character;
            i++;
        }
        cout << "\n\tDATA STORED SUCCES.\n";
    }

    if(handler.fail()){
        cout<<"Error writing to file";
    }

    handler.close();
}
```




```cpp
#include <iostream>
#include <fstream>
```

```cpp
using namespace std;

void myUpperCase(ifstream& handler) {
    char ch;
    while (handler.get(ch)) {
        if (ch>=65 && ch<=90) {
            cout << ch << " ";
        }
    }

    if (handler.bad()) {
        cout << "Error reading from file.\n";
    }
}

void myLowerCase(std::ifstream& handler) {
    char ch;
    while (handler.get(ch)) {
        if (ch>=97 && ch<=122) {
            cout << ch << " ";
        }
    }

    if (handler.bad()) {
        cout << "Error reading from file.\n";
    }
}

int main() {
    ifstream handler("dict.txt");
    if (!handler) {
        cout << "File unable to load.\n";
        return 1;
    }

    cout << "Uppercase characters: ";
    myUpperCase(handler);

    handler.clear(); // Clear the EOF flag to reset the stream
    handler.seekg(0, ios::beg); // Move back to the beginning of the file

    cout << "\nLowercase characters: ";
    myLowerCase(handler);

    handler.close();
    return 0;
}
```


```cpp
#include <iostream>
#include <fstream>
using namespace std;

int main() {
    fstream handler;
    char existingCharacter, updatedCharacter;
    string line;

    cout << "Enter existing character: ";
    cin >> existingCharacter;

    cout << "Enter updated character: ";
    cin >> updatedCharacter;

    handler.open("dict.txt", ios::in | ios::out);

    if (!handler) {
        cout << "\nFILE UNABLE TO LOAD\n\n";
        return 1;
    }

    while ( getline(handler, line)) {
        for (size_t i = 0; i < line.length(); i++) {
            if (line[i] == existingCharacter) {
                line[i] = updatedCharacter;
            }
        }
        handler.seekp(handler.tellg());
        handler << line <<  endl;
    }

     cout << "\n\tDATA STORED SUCCESSFULLY.\n";
    handler.close();

    return 0;
}
```

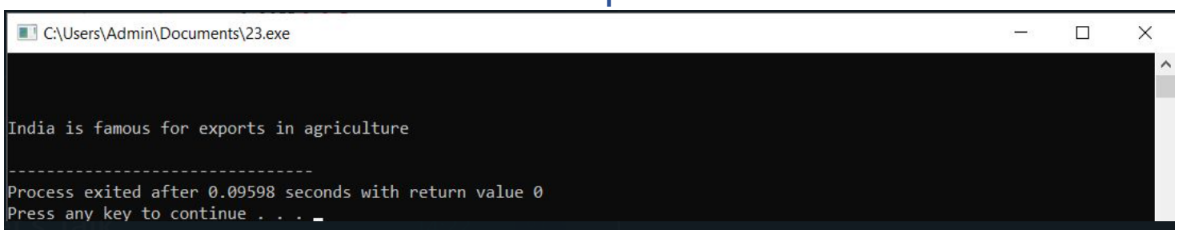


Task 4:

```cpp
#include <iostream>
#include <fstream>
using namespace std;
int main() {
    char textArray[50][50];

    for (int i = 0; i < 50; i++) { // Null array initialization
        for (int j = 0; j < 50; j++) {
            textArray[i][j] = '\0';
        }
    }

    ifstream inputFile("myfile.txt");
    if (!inputFile) {
        cout << "Error opening the file." << std::endl;
        return 1;
    }

    int row = 0;
    char ch;
    while (inputFile.get(ch)) {
        if (ch == '\n') {
            textArray[row][0] = '\0';
            row++;
        }
    else {
            textArray[row][strlen(textArray[row])] = ch;
        }
    }

    inputFile.close();

    for (int i = 0; i <= row; i++) {
        cout << textArray[i] << endl;
    }

    return 0;
```

```
}
```

Output:


C:\Users\Admin\Documents\23.exe
India is famous for exports in agriculture

Process exited after 0.09598 seconds with return value 0
Press any key to continue . . .