

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:

```

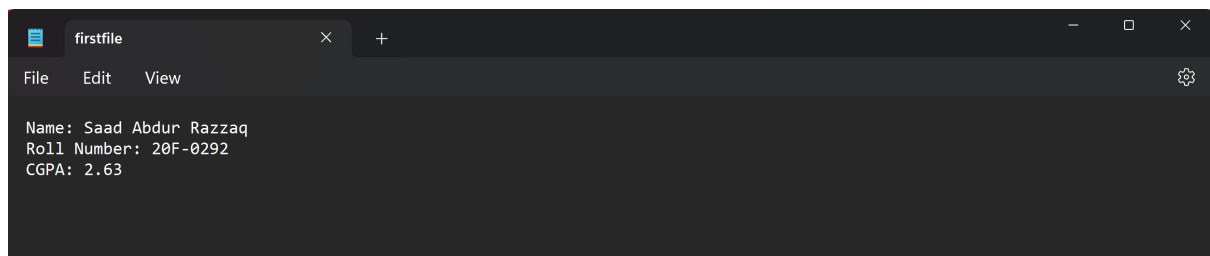
Enter you name: Saad Abdur Razzaq
Enter you roll number: 20F-0292
Enter you cgpa: 2.63

```

```

***DATA SUCCESSFULLY INPUTTED IN FILE***

```



```

firstfile
File Edit View
Name: Saad Abdur Razzaq
Roll Number: 20F-0292
CGPA: 2.63

```

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 }  
o File Deleted Successfully!
```

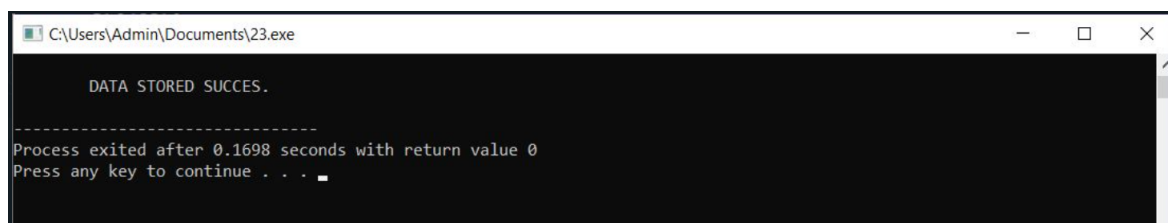
The screenshot shows a Windows search interface. At the top, there are tabs for 'Chat', 'All', 'Apps', 'Documents', 'Web', 'Settings', 'People', and 'Folders'. The 'All' tab is selected. Below the tabs, the search results are displayed. On the left, under 'Best match', there is a search bar with 'firstfile.txt' and a magnifying glass icon. Below the search bar, it says 'See web results'. On the right, there is a large search box with a magnifying glass icon and the text 'Search the web for "firstfile.txt"'. Below this, there is a link that says 'Open in browser' with an external link icon. At the bottom, there is a taskbar with various application icons, including the Start button, File Explorer, Microsoft Edge, and several other apps. The search bar at the bottom of the taskbar contains the text 'firstfile.txt'.

TASK 3:

```
#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();
}
```



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

```
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;
}
```

```
C:\Users\Admin\Documents\23.exe
Uppercase characters: Q H M A F R V G B N D X F T R P V M C S Y I F I K A V Z Y L G P F O B O J V B Y P E V P A Y H O V
O M N C K L
Lowercase characters: p l l d c k f z s j g r n s q e e z s e x x d e x v l p n l v q q q m u j u w b f k a x k
-----
Process exited after 0.1886 seconds with return value 0
Press any key to continue . . .
```

```
#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;
}
```

```
C:\Users\Admin\Documents\23.exe
Enter existing character: p
Enter updated character: X

DATA STORED SUCCESSFULLY.

-----
Process exited after 5.919 seconds with return value 0
Press any key to continue . . .
```

Task 4:

```
#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:



A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\Admin\Documents\23.exe". The window has standard Windows window controls (minimize, maximize, close) on the right. The command prompt area is black with white text. The output displayed is: "India is famous for exports in agriculture", followed by a line of dashes "-----", then "Process exited after 0.09598 seconds with return value 0", and finally "Press any key to continue . . . _".

```
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 . . . _
```