#### FILE HANDELING

1. Write a program to count and display number of occurrence of a word in a file.

#### **PROGRAM**

```
#include<iostream>
#include<fstream>
#include<cstring>
using namespace std;
int main() {
       char filename[50], word_to_count[50], word[50];
       ifstream inf;
       cout<<"Enter filename: ";</pre>
       cin>>filename;
       inf.open(filename);
       cout << "Enter word: ";
       cin>>word_to_count;
       if(!inf) {
               cout<<"Could not open file";</pre>
               return 0;
       }
       int count = 0;
       while(inf >> word) {
               if(strcmp(word, word_to_count) == 0)
                      count++;
       }
       inf.close();
       cout<<"The word "<<word_to_count<<" appears "<<count<<" times.";</pre>
       return 0;
```

#### **OUTPUT**

```
C:\Users\suresh\OOP\1.file.exe

Enter filename: testfile.txt

Enter word: Nepal

The word Nepal appears 3 times.
```

### 2. WAP to read and write values through object using File Handling.

```
#include <iostream>
#include <fstream>
using namespace std;
class Student {
       int rollNo;
       string name;
       float marks;
       public:
               void getData() {
                      cout << "Enter Roll No, name and mark:";</pre>
                      cin>>rollNo>>name>>marks;
               }
       void showData() {
               cout << "Roll No: " << rollNo << endl;</pre>
               cout << "Name: " << name << endl;</pre>
               cout << "Marks: " << marks << endl;</pre>
       }
       void writeToFile() {
               ofstream outFile("student.txt");
               if (!outFile) {
                      cout << "File could not be opened." << endl;
               return;
       }
       outFile << rollNo << endl;
```

```
outFile << name << endl;
       outFile << marks << endl;
       outFile.close();
       void readFromFile() {
               ifstream inFile("student.txt");
               if (!inFile) {
                      cout << "File could not be opened." << endl;</pre>
               return;
       }
       inFile >> rollNo;
       inFile >> name;
       inFile >> marks;
       inFile.close();
       }
};
int main() {
Student student;
student.getData();
student.writeToFile();
student.readFromFile();
student.showData();
return 0;
}
```

# C:\Users\suresh\OOP\file\_write\_through\_object.exe Enter Roll No, name and mark:420 Suresh 10 Roll No: 420 Name: Suresh Marks: 10

#### 3. WAP to Count Words Lines and Total Size using File Handling.

```
#include <iostream>
#include <fstream>
using namespace std;
int main() {
       ifstream file("testfile.txt");
       if (!file) {
               cout << "File could not be opened." << endl;
               return 0;
       }
       int wordCount = 0, lineCount = 1, charCount = 0;
       char ch;
       int inWord = 0;
       while (file.get(ch)) {
               charCount++;
               if (ch == '\n') {
                      lineCount++;
               }
               if (isspace(ch)) {
                      if (inWord == 1) {
                              wordCount++;
                              inWord = 0;
                       }
               } else {
```

#### C:\Users\suresh\OOP\count\_word in file.exe

Number of lines: 4 Number of words: 16 Total file size: 84 bytes

## 4. WAP to read text from one file and write in another text file using File Handling.

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

int main() {
    // Open the input file
    ifstream inputFile("testfile.txt");
    if (!inputFile) {
```

```
cout << "Error opening input file!" << endl;</pre>
        return 1;
}
// Open the output file
ofstream outputFile("output.txt");
if (!outputFile) {
        cerr << "Error opening output file!" << endl;</pre>
        return 1;
// Read from the input file and write to the output file
string line;
while (getline(inputFile, line)) {
        outputFile << line << endl;
}
inputFile.close();
outputFile.close();
cout << "File copying completed successfully." << endl;</pre>
return 0;
```

```
C:\Users\suresh\OOP\file_copy.exe

File copying completed successfully.
```

5. Write a program to write and read an object in a file.

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

int main() {

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```

```
char filename[50], word_to_count[50], word[50];
ifstream inf;
cout<<"Enter filename: ";</pre>
cin>>filename;
inf.open(filename);
cout<<"Enter word: ";</pre>
cin>>word_to_count;
if(!inf) {
        cout<<"Could not open file";</pre>
        return 0;
}
int count = 0;
while(inf >> word) {
        if(strcmp(word, word_to_count) == 0)
                count++;
}
inf.close();
cout << "The \ word \ " << word \_ to \_ count << " \ appears \ " << count << " \ times.";
return 0;
```

}

#### C:\Users\suresh\OOP\1. file.exe

Enter filename: testfile.txt

Enter word: Nepal

The word Nepal appears 3 times.