**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: ";

cin>>filename;

inf.open(filename);

cout<<"Enter word: ";

cin>>word\_to\_count;

if(!inf) {

cout<<"Could not open file";

return 0;

}

int count = 0;

while(inf >> word) {

if(strcmp(word, word\_to\_count) == 0)

count++;

}

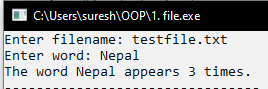
inf.close();

cout<<"The word "<<word\_to\_count<<" appears "<<count<<" times.";

return 0;

}

**OUTPUT**

****

1. **WAP to read and write values through object using File Handling.**

**PROGRAM**

#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:";

cin>>rollNo>>name>>marks;

}

void showData() {

cout << "Roll No: " << rollNo << endl;

cout << "Name: " << name << endl;

cout << "Marks: " << marks << endl;

}

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;

return;

}

inFile >> rollNo;

inFile >> name;

inFile >> marks;

inFile.close();

}

};

int main() {

Student student;

student.getData();

student.writeToFile();

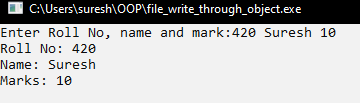
student.readFromFile();

student.showData();

return 0;

}

**OUTPUT**

****

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

**PROGRAM**

#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 {

inWord = 1;

}

}

// To count the last word if the file doesn't end with a space or newline

if (inWord == 1) {

wordCount++;

}

file.close();

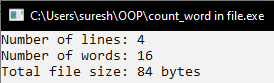
cout << "Number of lines: " << lineCount << endl;

cout << "Number of words: " << wordCount << endl;

cout << "Total file size: " << charCount << " bytes" << endl;

return 0;

} **OUTPUT**

****

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

**PROGRAM**

#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;

return 1;

}

// Open the output file

ofstream outputFile("output.txt");

if (!outputFile) {

cerr << "Error opening output file!" << endl;

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;

return 0;

}

**OUTPUT**

****

**5. Write a program to write and read an object 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: ";

cin>>filename;

inf.open(filename);

cout<<"Enter word: ";

cin>>word\_to\_count;

if(!inf) {

cout<<"Could not open file";

return 0;

}

int count = 0;

while(inf >> word) {

if(strcmp(word, word\_to\_count) == 0)

count++;

}

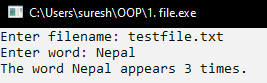
inf.close();

cout<<"The word "<<word\_to\_count<<" appears "<<count<<" times.";

return 0;

}

**OUTPUT**

****