**Assignment No:** 8

**Problem Statement:** Write a C++ program that creates an output file, writes information to it, closes the file and open it again as an input file and read the information from the file.

**Aim of Assignment:** To implement the file creation, read and write operation in C++.

**Description:**- The file object is created. The file is opened using open() in write mode. Data is to be stored in file using the same file object. Then, the file is closed. Again, the same file object is used to store the file in read mode. The file is read and its content is displayed on the console.

**OOP Concept used:**

1. Files:- Files are the collection of related data stored in a particular area on the disk. Programs can be written to perform read and write operations on these files. The list of file classes are:
2. Ofstream:- This file handling class in C++ signifies the output file stream and is applied to create files for writing information to files
3. Ifstream: This file handling class in C++ signifies the input file stream and is applied for reading information from files
4. Fstream: This file handling class in C++ signifies the file stream generally, and has the capabilities for representing both ofstream and ifstream.

**Conclusion:** The various operations on files are implemented successfully.

**Program:**

#include<iostream>

#include<fstream>

using namespace std;

int main()

{

char ch;

fstream f;

f.open("assignment.txt",ios::out);

if(!f)

{

cout<<"ERROR WHILE OPENING FILE"<<'\n';

return 0;

}

cout<<"assignment.txt created"<<'\n'<<'\n';

f<<"HELLO guys..have a good day"<<'\n'<<'\n';

f.close();

f.open("assignment.txt",ios::in);

if(!f)

{

cout<<"ERROR OPENING FILE"<<'\n';

return 0;

}

cout<<"CONTENT OF THE FILE ARE:"<<'\n';

while(!f.eof())

{

f>>ch;

cout<<ch;

}

f.close();

return 0;

}

