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Experiment No. 5

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Aim; Write a Gt program that creates an output file, writes information to it, closes the file open it again as an input file & read the information from the file.

Objectives: To understand the concept of file handling To understand the inbuilt file handling functions.

Software used: Linux Operating Systems, GCC

Theory; so far we have been using using the instream standard library, which provides an & cout methods for reading from standard input & writing to standard output suspectively

Operations: Greating a file output some data.

Data Types & Description

- 1. of stream. This data type represents the output file stream.

  I is used to create files of to write information to files.
- 2. ifstream: This data type represents the input file stream f is used to read information from files.

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3. fotream ! This data type represents the file stream generally, I have the capabilities of both of stream I if stream which means it can create files, write information to files, I read information from files.

Opening a file:

A file must be opened before you can read from it or write to it. Sither of stream or futream object may be used to open a file for writing. And if stream object is used to open a file for reading purpose only.

Following is the standard syntax for open function which is a member of fitream, if stream, if offream objects void open (const char \* filenam, iosi, openmode);

Here the first argument specifies the name & location of the file to be opened & the second argument of the open of member function defines the mode in which the file should be opened.

Mode flag & Description;

- 1. ios: app Append mode. All output to that file to be appended to the end.
- 2. ios: ate Open a file for output 4 move the read/write control to the end of the file.
- 3. ios: in Open a file for reading
  4 ios: out Open a file for writing
  5. ios: trunc If the file already exists its contents will be
  truncated before opening the file.

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You can combine two or more of these values by Oring them together. For example if you want to open a file in write mode of want to truncate it in case that already exists, following will be the syntax-

of streamout file of out lios; trunc);

similar way, you can open a file for reading & writing purpose as follows -

fstreamafile;
afile.open("file.dat", ias: out l'ior; in);

Oloxing a file:

When a C++ program terminates it automotically flashes all
the streams, selease all the allocated memory & close all
the opened files before program termination.

Following is the standard syntax for close() function, which is
a member of fitneam, if stream, & africam objects.

void close();

Writing to a File:
While doing CH programming, you write information to a file from
your program using the stream insertion operator (<<) just as
you use that operator to output information to the screen.
The only difference is that you use an afstream or fisheam
object instead of the court object.

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	Reading from a File;  You read information from a file into your program using the streem extraction operator (>>) just as you use that operator to input information from the keyboard. The only difference is that you use an ifstream or fisheam object instead of the air object.
	Algorithm:  1. Start  2. Greate a file pointer object in main program.  3. With pointer object open a file in writing mode furthe the content into it.  4. Close a file  5. With pointer object open a file in reading mode fread the content from the file.  6. Close a file.  7. Stop.
	Output; i) Worting the content into file.  2) Reading the content from the file.
	Conclusion. Their, we studied concepts of file hardling fits operation to perform reading the content from the file for writing the content into the file.

## **Program:**

```
#include<iostream>
#include<fstream>
using namespace std;
int main(){
    char Give_Info[200];
    ofstream Out_file;
    Out_file.open("Information.txt",ios::out);
    cout<<"Enter information to store it in file.(Not more than 200</pre>
characters): \n";
    fgets(Give_Info,200,stdin);
    Out_file<<Give_Info;
    Out_file.close();
    char Get_Info[200];
    ifstream In_file;
    In file.open("Information.txt",ios::in);
    In_file.getline(Get_Info,200);
    cout<<"\nGiven information is :\n";</pre>
    cout<<Get_Info<<endl;</pre>
    In_file.close();
    Out_file.open("Information.txt",ios::app);
    cout<<"Enter information to store it in file.(Not more than 200</pre>
characters): \n";
    fgets(Give_Info,200,stdin);
    Out file<<Give Info;
    Out_file.close();
    In_file.open("Information.txt",ios::in);
    In file.getline(Get Info, 200);
    cout<<"\nGiven information is :\n";</pre>
    cout<<Get_Info<<endl;</pre>
    In_file.close();
    // Out_file.open("Information.txt",ios::trunc);
    // cout<<"Enter information to store it in file.(Not more than 200</pre>
characters): \n";
    // fgets(Give_Info,200,stdin);
    // Out file.close();
    // In file.open("Information.txt",ios::in);
```

```
// In_file.getline(Get_Info,200);
// cout<<"\nGiven information is :\n";
// cout<<Get_Info<<endl;
// In_file.close();

return 0;
}</pre>
```

## **Output:**

