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* Assignment 4 *

Title :- file Handling

problem statement :-
write a c++ program that creates an output file, write information to it, closes the file and open it again as an input file and read the information from the files.

prerequistics :- object oriented programming

objectives :- To learn the concept of file handlig.

Theory :-

stream :- A stream is a sequence of byts. It acts, as source from which the input data can be obtained or as a destination to which the output data can be sent.

① Input stream :-
Input stream are used to hold input from a data produces, such as a keyword a file, or network. The sources stream that provides data to the program is called the input stream.

② Output stream :-
output stream are used to hold output for a particular data consumes such as a monitor a file or a printer this destination

stream that receive data from the program is called the output stream.
File handling provids three new data types.

① ofstream - output stream.
② ifstream - input stream.
③ fstream - file stream.

To perform file processing c++, header file <iostream> and <fstream> must be included in your c++ source file.

Opening a file:-
A file must be opened you can read from it or write to it.

Syntax:-
void open (const char* file name, ios::
open mode);

Modes:-

ios:: app → append mode
ios:: ate → read (write control to end)
ios:: in → reading mode.
ios:: out → writing mode.
ios:: trunk → If file already exist it content will be truncated before opening the file.

Closing a file:-
When a c++ terminates it automatically close all the stream, release all the

allocated memory and close all the opend files.

Syntax :- void close ();

write to a file.

- while doing c++ 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 ofstream or ifstream object instead of the Cout object.

Reading from a file :-

- You read information from a file into your program using the stream extraction operation (>>) just as you that operator to input information from the keyboard.
- ifstream or ifstream object instead of in object.
- Syntax.

File.read [char *) &V. Size of (V)];
file write ((char *) &V, Size of (V));

Facilities :-

linux operating System. G++

Algorithm:-

1. Start
2. Create a class
3. Define data member roll number and name.
4. Define accept() to take name and roll numba from user.
5. Define display() to display the record.
6. In main() create the object of class and ifstream class.
7. To take a limit from user in a variable.
8. Open the file in out mode, Call accept() to take record from user, then Call write() to write that record into the file and at the end close that file.
9. Open the file in mode, read the record from the file, Call display() function to display the record and at the end close that file.
10. Stop.

Conclusion:- Hence we have studied of file Handling.