AIM:-

ASSIGNMENT 8

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.

OBJECTIVE:-

C++ File Handling provides a mechanism to store output of a program in a file and to perform various operation on it.

THEORY:

**File Handling** concept in C++ language is used for store a data permanently in computer. Using file handling we can store our data in Secondary memory (Hard disk).

For read and write from a file you need another standard C++ library called **fstream**, which defines three new data types:

Ofstream - This is used to create a file and write data on files

ifstream - This is used to read data from files

fstream - This is used to both read and write data from/to files

Opening a File

fopen() is used to create a new file or open an existing file.

Read() and Write() function

These function take two arguments. The first is the address of the variable V , and the second is the length of that variable in bytes. The address of variable must be cast to type char \* (i.e pointer to character type).

Example

file .read((char \*)& V. sizeof (V));

file .write((char \*)& V. sizeof (V));

Closing a File

When program terminates, it automatically flushes out all the streams release all the allocated memory and closes the open files. But it is good to use the close() function to close the file related streams and it is a member of fstream objects.

Sourcecode

#include<iostream>

#include<fstream>

#include<string>

#define length 25

#include<stdio.h>

using namespace std;

int main()

{

int roll,i=0,a,roll1[10];

char name[length];

string name1[20],sname[20];

fstream file\_("assign5.txt",ios::app);

fstream file("assign5.txt");

if(file\_.is\_open())

{

cout<<"File is opened:\n";

cout<<"Enter Name and Sur name:";

gets(name);

file\_<<" "<<name;

cout<<"Enter Roll NO:";

cin>>roll;

file\_<<" "<<roll<<"\n";

}

file\_.close();

cout<<"\nFile is closed:";

cout<<"\nPress 1 to read the data from file:";

cin>>a;

if(file.is\_open())

{

i=0;

while(file>>name1[i]>>sname[i]>>roll1[i])

{

cout<<endl<<name1[i]<<" "<<sname[i]<<" "<<roll1[i]<<endl;

i++;

}

}

//cin.get();

return 0;

}

Output

/\*

File is opened:

Enter Name and Sur name:Nikit Gokhe

Enter Roll NO:24

File is closed:

Press 1 to read the data from file:1

nikit gokhe 24

Nikit Gokhe 24

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Process exited after 13.8 seconds with return value 0

Press any key to continue . . .

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