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Assignment no.4

Title: File handling Problem Statement: write a ctt program that creater an output file, writer information to it, closes the file & open it again as an input file & read the information from the file. Prenequisites: Object oriented programming Objective: To learn the Concept of file handling. Files represents storage medium for storing data & information. Streams refers to sequence of bytes. In files we Store data i.e. text or binary data permanently I use these data to read or write in the form of input output operations by transferring bytes of data. So we use the term file streams/ file handling. De use the header file (fstream)



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1. Inputstream

There are used to hold input from a data producer,
such as a keyboard, a file, or a network.

The source stream that provides data to the

Program is called the input stream. A program
that extracts the bytes from the inputstream.

In most cases the standard input device
is the keyes board. with the cin & "extraction"
operator (>>) it is possible to read input
from the keyboard.

There are used to hold output for a particular data consumer, such as a monitor, a file or a printer. The destination stream that receives data from the program is called the output stream.

A program inserts the bytes into an output stream. By default, the std output of a program Points at the screen. So, with the cout operator of the "inxertion" operator (<<) & You can print a message on the Screen.





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			library provides in fout methods on standard input & writing tout respectively.
			ouides three new datatypes:
	r. 10.	Data type	Description
	100	ofstream	This data type represents the output file stream & is used to one ade files of to write information to files.
		ifstream	This data type represents the input file stream & is used to read information
		AAAAA	This data type sepreserts the
3		fstream	this data type represents the file stream generally, I has the capabilities of both of stream of its tream which means it can greate files, write information to files, I read into from files.

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To perform file processing in C++, header files <iostream > f cfstream > must be included in your ctt source file. opening a file: A much he opened before you can read from) it or write to it. Either ofstream or fstream Object may be used to open a file conting. And if stream object is used to open a file for reading purpose only. Following is the std syntax for open ()
function, which is a menber of fisheam ifetream & ofstream objects Void open (cost chan *filename, ios!! openmode mode); Here, the first angument specifies the name of location of the file to be opened of the second argument of the open () member function defines the mode in which the file should be opened.





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	gr. Na	Mode flag	Description
	1.	10s:1 app	Append mode. All output to mut file to be appended
	3,1	Man Ah	to the end.
)	2.	ios:, ate	open a file for output (move the read/write contro) to the end of the file.
			to the end of the the
A Maria		a Valoritation of the	open a file for meading.
tight and a	2.	ios :: in	
	4.	ios::out	open a file for writing
	5.	ios :: tounc	if the file already exists,
)	1	and the second	if the file already exists, its contents will be truncated before opening the file.
	by was	oring them to nt to open a uncase it in ollowing will be -	100 100 100 100 100 100 100 100 100 100
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Similar vous you can open a file for stading & writing purpose as horrows: totream afile; afile-open ("file.dot", ios:: out ios: in); 1 closing a file. When a ctt program terminates it automatically flushes all the streams, release all the allocated memory & close the orall opened files. But it is always a good practice that a programmer should close all the opened files before program termination. following is the std syntax for close () function which is a member of foream, ifstream, & obstream objects. void close(); menting into file & closing the file

new-file (c"learning file handling";

// wonting to file

new-file. close();

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Here use first orate a new file " new file write" using open () function since we wanted to send output to the file so, we use josi: out As given in the program, information typed inside the quotes after Insertion pointer " < " got passed to the output file once the work is complete, we close the file. Reading from a file · You read information from a file into your program using the stream extraction operator (>>) just as you use that operator to imput information from the keyboard · The only difference is fruit you use an intofream or formean object instead of the cin object file pread (chart) &s, size of (s); · There functions take two arguments. The first is the advers of the variable V, & the second is the length of that variable in bytes The agress of variable much be cast to type chart (ie. pointer to character type)





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writing to a file • usuite doing et programming you write information to a tile from your program Using the stream insertion operator (EC) just as you use that operator to culput information to the screen . The only diff. is funt you can we anotstram) or fotneam object justeed at cout object file. write (cchart) &s, size of (s); Algorithm: 1; start 2. create class 3. défine data mensbers voil no & name 4. Define accept() to make take name & roll no. from user S. Define display () to display the record G. In main () oreale the object of class & fisheam class 7. Take a limit from user in 'n' variable. 8. open the file out mode, call accept () to take record from user, then call write () to comite that record into the file & of the end close that file



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	9. open the file in 'in' made, read the record from the file, call display() function to				
	display the record of at the end close that file.				
D	10. Stop.				
	I/p:				
	how many records you want: 3				
	2. pgr 3. xyz				
	O/P:				
	Roll No. 1				
	name: par 2 Roll No. 2				
	Roll No. 3				
	Conclusion: Do, in this assignment, we studied diff, file				
	handling operations and like, opening, closing, reading of writing and performed success-				
	fully one the files.				
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