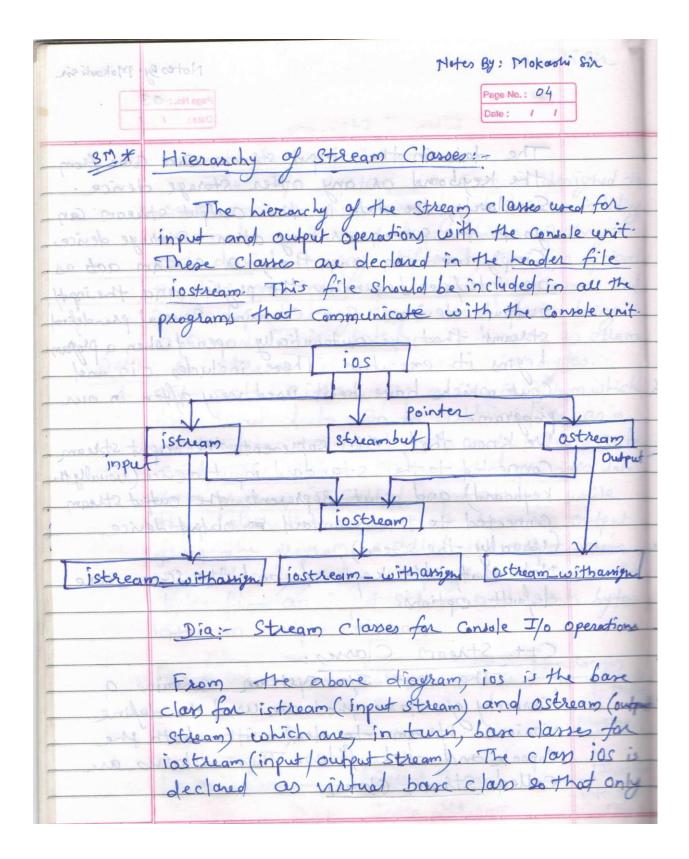
Unit- V
Files & Streams

No. 3 No. 1 No. 1 No. 1
Unit - I. Motes by :- Mokashi Sin
Page No.: 61
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- Day B
Introduction to storage
Introduction to Storam:
as ingut and come land to later some data
general processed data as output
of Tollowing the familian input - process-output
gett. It is Therefore, essential to know how to
provide the input data and how to present
The senuts in the desired form.
We have already used cin scout with the
December of operators for the input and output
Operations.
(IT supports a rich set of I/o dunctions and
on to do various manipulations since
the functions use The advanced features of City
(such as classes, derived classes and virtual functions)
we need to know a lot about them before
heally implementing the C++ I/o operations.
Remember that C++ Support and of C's rich
set of I/o functions of
set of I/o functions. C++ also uses the concept
of Stream & Stream Chartes to implement its
to pour of the console and dist Life
The state of the s
Oriented input-output Operation.
The state of the s

Hotos & :- Moken Notes By: Mokashi Sir II- HUU Page No. 1 C Page No.: 02 Data: 3c / ld Date: 15 designed an interface independent program 15 input stream phogram is called 3+8 I/P device Extraction Input Stream from Street Program O/P device Output stream Inser ! into 0/2 Dia: Data Streams

Hotes By: Plaker i Six Notes By: Mokadisin Page No.: 44 Page No.: 03 Date: / The data in the input stream can come from the keyboard or any other storage device Similarly, the data in the output stream can go to the screen or any other storage device. Simply we can say that a stream acts an interface between the program and the input output derices. Ett Contains Several pre-défine streams that are automatically opened when a program. beging its execution. These includes cin and Cout which have been used very often program. We know that cin represents the input stream standard input device (usually the keyboard) and Cout Represents the output stream Connected to the Standard in output device (usually the screen the keyboard and the scoren are default options. C++ Stream Classes: C++ I/o system contains hierarchy of classes that are used to define various streams to deal with both the Console and disk files. There classes as Called Stroam Classes.



W	Motes By: Mokashi cir		
	Page No.: 05		
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	Compliance 1 1 Construct 1		
	one copy of its members are inherited by the		
	OStream.		
L	The class is provides the basic support for		
- 5	formatted and unformatted To operations. The		
	class istream provides the facilities for		
	formatted and unformatted input while		
SN.	the class ostream (through inheritance) provides		
5	the facilities for formatted output.		
	The class jostream		
- 6	10 Pheary - it Inherit the pheapher of in isteer I arthur		
オ	Stream Clarges for Console Operation (Table forms)		
	The class jostream provides the facilities		
	for handling both input and output streams.		
	Three classes, namely, istleam withanign		
	ostleam_withanign of jostleam_withanign add 1		
0.0	assignment operators to these classes.		
	Following table gives the details of there		
	classes.		
	late (till-to) Aid missis Mant mingo 10 12		
me	Contents Produced To the		
	- i) Contains baric facilities that are used for all other input		
1	and output classes. All beloated the box		
cla	) ii) Also contains a pointer to a buffer object (streambuf object).		
	ii) Declares constants and functions that are necessary		
	for handling formatted input & output operations.		

Motes By: Totokady cir Motes By: Mokashi 5 Page No.: 6 Page No.: 06 Content Claphane i) Inherits the properties of ios. (input stream) ii) Declares input functions such as get () & le iii) Contains overloaded entraction operator Ostdeam -i) Inherits the properties of ios (output street) Declares the output functions putc) & with iii) Contain overloaded insertion operator << 1) Inherits the properties of ior istream & ostream t multiple inheritance and thus contains all inputousput Enput and output functions Iteambuf i) hovides an interface to physical devices the Acts as a base for filebuf and closing a the following things its intended Suitable name for the Data type and Structure

HOTO BY: Morcella Notes By: Mokashi Gir. Page No.: 07 4. Opening method. filename is a string of characters that make up a valid file System. It may contains two parts Dame and an optional period with Stream clarry ifstream, of stream and fstream header file fotheam lan to be used depends upon the Connection with a file is closed automatically when the stream object engines the pargram terminates). we perform two different Program for writing leading data (input), instead there we can use a Single program opening every file we can use the rember function open() and for the end of the plagram we mber function close() of for member function

Notos By: Mokarti Gir.	Note Dy. Maked Co
I S	Hotos By: Mokashi six
Page No. : o > Oate:	Page No.: a%
	Date: / /
37 * File Modes:	4. Opening vnothed
The -	file mode parameter an tak
one (on more)	Constants defined in iar cle
	le shows the file boode
parameters ust	h their meanings.
Oscarical Lat Him - Literal	name and on astronal
Parameter	Meaning
ios: app	Append to end - of-file
wines live to aten much	Go to End-of-file on open
ios: bioary	Binary file
jos:: in	Open file for reading only
iss: hoceate	Open files if the file does no.
ter we want to had dotte	terist but examp
ios: hoseplace	Open file if the file afream
it a filelist clied t	enist
- notices jos: out out to	open file for writing only
ios: trunc	Delete the Contents of the File
execute shorten La estima !	if it exists
ind dated copy to instead of	look about tooky ) otab
File I/o with 9	tream class:
	m of C++ Contains a set of
classes that do	lines the file handling metho
These includes	if stream of stream and fotse
There Clarries	if stream, afstream and fother
jostleam class.	member function

E	Notes By: Mokadish  Page No.: 09  Date: 30/10/18
	These classes designed to manage the disk files, are declared in fotream and therefore, we must include this file in any program that uses files. Following table shows the defails of file stream classes. These classes contains many more features.
a esy-	The purpose is to set the file buffers to lead and write. It also contains close () and open () as members.
	streams. It serves as a base for fstream, ifstream and afstream class.
	- It provides input operations. It contains opens.
	with default output mode.
-tream-	It provides support for simultaneous input and output operations. It contains open() with default input mode.  Best of Luck.

## **Question Bank on Unit-V**

- Q1. What is Polymorphism? Explain its different types?
- Q2. What is Virtual Function? Explain rules for Virtual Function.
- Q3. Explain Virtual Function with suitable program.
- Q.4 Explain Pure Virtual function with suitable program.
- Q.5 Write difference between Polymorphism and Virtual function.
- Q.6 Write difference between Virtual Function and Pure Virtual Function.
- Q.7 What is mean by streams? Explain hierarchy of stream classes.
- Q.8 Explain various stream classes used for console operation.
- Q.9 Explain different file modes.
- Q.10 Explain file i/o with Stream class.

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