PAGE NO. : UNIT-V Exception Handling: It allows to manage evenes without crashing program It Consist of 3 functions: comes in pair 11 Try (2) Throw ) (3) Catch Cotus the Provide with detects exception exception Gignal that handle it exception (v) Syntax int age = 21. if (age > = 18) { cout << 4 Eligible"; '9 else ( ) can also throw rustomised (throw) (age); 3 error j.e. we san objent i 2 eg: throw (404); Cater) (lint Num) [1000) com also be usual if try Cout << 4 Ace NOT eligible"; type not known Cout 14 Age: " 44 Num',

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 PAGE NO.	:	
Nose: Throw type can be customised		
 terson by exception (" customised unor ")	,	(7)
· Mustiple cateer are used for diff types &	} exc	aprion
Coten () Houndle au exceptions		
Re-turowing Exceptions!		
re-turowing excep inside catch box to p' tigher level.	ropg	i.to
	50	
eg:- try s  try s  turow (); 3		
Catch () {	1)	
(atch () ; 2 (out-<< " " " " " " " " " " " " " " " " " "		
Cately () {	1	
3 Coult ( " ";		
Standard Exceptions:		
4 base class		
logie error 2) due to logical mistake.  out of range => out of bound elemente  Givalid argument &		}
Invalid argument &		

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DATE: / / PAGE NO. : Start by block & exap(x) & Point & end throw excep - carch block - Houder = Templates: -" Function (2) class Template operates with generic data type. allow class to work with any data type (Syntax ) template < Typename T> template < Typename T> Tadal (Ta) Tb) f

return a +6; 3

function Name

Parameter

Parameter class Box & Public: I value; Box (Tval): value (Val) {} Tgetvalue () { return value; } Multiple Parameter: Tmultiply (Ta, Ub) £

Tetum a\*b; Template ( Typerome ?) Templates can be specialized
i.e. print < char > / print < T > Void \_ ( ) } Non - Type Parameter + Size, Arraysize

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a va a valent de la companya de la c		PAGE NO.:			
=>	Stream class:				
	is handles 1/P, 0/P operations				
(1)	Input (2) output	(2) ourput			
	(cin, ifstream) (co	ut, of stream)			
	1				
	Mead data Write	data			
	Common Stream class:				
	9 fetream (>>) (2) fetream (<<)(3)				
(1)					
< 1		7. 4. B			
	(read + write)				
	eg:- indes (read + write).				
	of l'outile « " ";	,			
	geralue				
	l'éfetreau infile (" example : +x+"	) :			
	Shinoline.				
-/	Cour- <( '' '' ' ' ' ' ' ' '	ASSESSED A			
1	Coul- 21 11; 4 4				
1		CANADA H			
	outfile.is_open()				
	buttile close ()	Successfully			
1	outfile. close ()  S closes file after writing				
	Joseph Lagrange Comments				
	gettine				
	Gread live from file				
	infile close()				
	infile close() 4 croses fill after mading				

The state of the s

		DATE: / /
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	fstream +	
	fstreom file (" example. txt", infout),	
	if (file is-open()) &	
	String line	
	String line; while (gettine (file, line))! cour « line; 4	(
	cour « line; 4	
	file « lu "	
	fikelose (); 3	
	else É	
	cout << " " }	
	returno: 3	
	OV	
	file Opening Mode!	
	0	
	us - read mode	•
	out - write mode	
	app - append mode (data written all ate -> 4 more pointer to end	- end)
	ate -> finove pointer to end	
	binary - spen in binary mode (text "	node X)
2)	File Handling:	
•	File Stream Class.	
٠	Opening file -	
	ifstream inputfile;	
	inputfile. Spen (" example. txt	<i>''</i> ).
	at a contract of E	100 110
•	checking if file open > x · E	mor Handling
	if (input-file) & . I	Binary file Handl File pointer
		-lle pointer
•	Reading file	
	writing file	
CALLED THE STREET	111) 1/10 1 1/1	