```
MUTTIPLE CATCH BLOCK :
    int main ()
     11t a = 20; b=0, C;
    tog { if (b==0)
        throw (c);
      eise
       ₹ € = %;
       Catch (chao ()
    ¿ caut < c "Cought expectation: chartype";
    Cout <2 " Caught expectation: int type";
    call << "\ Hello":
                                        catch (charx)
{
cout << " Catch Character"
 Void test (intx){
  toy
  ₹ if (x>0)
   throw "x";
                                       vaidmain ()
  PISC
   thoow "x";
                                       Court (2" testing multiple cate
catch (intx)
                                        test (10);
                                        test (0);
 Caut < c" Catch integer < x « Lend);
                                        getch () ;
```

POORNIMA Unit No. Lecture No. Subject Name | Subject Code | Main Topics:can we have a toy block inside a toy block. wolle a pagram for inline function without class using CH programming. watte a Pargaam for Constructor overloading in Ott write a pagaem for Capy Constructor to find factor in G++. TEMPLATE IN CA+: It is define a buse point of formula for coeating a generic class or a function. To simply put, you can create a single function or a Class with different data type using template. The template Tynchion Class 1. Function template: we can define for a function (X), we have add () temotion we can colo the version of the add function, flow Int, dauble type. ynyexis Template & classitype, setum type fun. name // bady Ideas, Questions & Summary: y / Website Ref.:-

Template: It is a placehalded name for a data type use the function definition. It is used within the function definition. Template as

Template < Class T> Tadd (7 49,78b)

PORNIMA Date Unit No. Lecture No. Faculty Subject Code Main Topics: FUNCTION TEMPLATE; It is a single function template that Unord with meetitiple datatype Symontaneous of body SMITEX: template < Class Type> return reflect function—name "body Pregram: Template < class X > X func (Xa)Xb) Seturn a; Int main () { Caut < function func (15.8); Caut << function func (7.3, 8.2); Teturn o; Setch (); }	
FUNCTION TEMPLATE: It is a single function template that wood with meetiple datatype symontoney street: template < class Type> setum type function -name of body? Program: Template < class x > x func (xwxb) Setumn a; Int main () Caut < function func (15.8); [[(cout < function func (7.3, 8.2);])] Tetyon o;	
FUNCTION TEMPLATE: It is a single function template that wood with meetiple datatype symontoney street: template < class Type> setum type function -name of body? Program: Template < class x > x func (xwxb) Setumn a; Int main () Caut < function func (15.8); [[(cout < function func (7.3, 8.2);])] Tetyon o;	POORNIMA
FUNCTION TEMPLATE: It is a single function template that wood with meetiple detatype symontonically with meetiple detatype symontonically sym	Date Unit No. Lecture No. For
FUNCTION TEMPLATE: It is a single function template that wood with mentiple detection template that who did with mentiple detection - name of the second state of the second second state of the second se	Subject Name Subject Name
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SINTEX: template < Class Type> seturn type function -name \$ body \$ program: Template < class x > \$ func (xwxb) \$ return a; Int main() { caut < function func (15,8); [1 { caut < function func (7.3, 8.2); } Teturn b;	
program: Template < class x > X func (xwxb) Solution func (15,8); [1 {cont < function func (7.3, 8.2); Teturn o; Solut < function func (7.3, 8.2); Teturn o;	/ / / / / / / / / / / / / / / / / / /
Program: Template $< class \times > \times \text{ func}(x_{\omega}X_{b})$ $< \text{ Teturn a};$ $< \text{ int main ()}$ $< \text{ caut } < \text{ function func (15.8);}$ $< \text{ Caut } < \text{ function func (7.3, 8.2);}$ $< \text{ Teturn a};$ $< \text{ Teturn a};$ $< \text{ caut } < \text{ function func (7.3, 8.2);}$ $< \text{ Teturn a};$	SYNTEX: +emplate < Class Type > 2010
Program: Template $< class \times > \times \text{ func}(x_{\omega}X_{b})$ $< \text{ Teturn a};$ $< \text{ int main ()}$ $< \text{ caut } < \text{ function func (15.8);}$ $< \text{ Caut } < \text{ function func (7.3, 8.2);}$ $< \text{ Teturn a};$ $< \text{ Teturn a};$ $< \text{ caut } < \text{ function func (7.3, 8.2);}$ $< \text{ Teturn a};$	S vi-in the tunction -name
X func $(x_{\omega})_{b}$ $\begin{cases} $	2 boay
X func $(x_{\omega})_{b}$ $\begin{cases} $	5
X func (xe)Xb) { Teturn a; } int main () { Caut < function func (15.8); // (caut < function func (7.3, 8.2);	pagaam: Template / Class X
Tetyrn a; int main () { Caut < function func (15.8); // (cout < function func (7.3, 8.2); Caut << function func (7.3, 8.2); Tetyrn b;	V fermand and the
int main () { Court < function func (15.8); Court << function func (7.8, 8.2); Teturn b;	$(X_{\mathbf{a}}, X_{\mathbf{b}})$
int main () { Caut << function func (15.8); Caut << function func (7.8, 8.2); Teturn 6;	2 Statement
Caut << function func (15.8); (15.00); Caut << function func (7.3, 8.2); Teturn 0;	0 er (1881) a ;
Caut << function func (15.8); (15.00); Caut << function func (7.3, 8.2); Teturn 0;	ξ,
Caut << function func (15.8); (15.00); Caut << function func (7.3, 8.2); Teturn 0;	Int main ()
Caut << function func (15.8); (15.00); Caut << function func (7.3, 8.2); Teturn 0;	E Court << femc(p), (
return o;	Caut << function func (15,8); 113 cm
	Caut << function func (7.3, 8.2);
	return o:
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1.	To	s cla	ss :	this cons	-108848	· ·
L.				112pam	Class	Dispara In a

Tos class stoeam classes. It handle the imput Stream in Ct programming language. 2. Is stoeam class: scin wer

: It hadle the autput stream in ofetine 1 read Class Ostream

pragram ming

```
15sta-cam >
                                  Ostocam ->
                                     int main ()
          int main ()
                                    { char b;
            { Chase;
                                    cin-get (b):
              cin ger (9);
                                Caut. Put (b):
              Caut << a;
                                   र्भिष्ठम 0;
               retyon o;
  OUTSTREAM
1. Puts (): Puts function is similiar to a Printffunc
                 It is use to paint the stating on the
                 Consale which is poeriousy lad by using get
                 and scanf function
   int main ()
  Puts ("this autput is painting using puts");
9ets ():
 #
     int main ()
    E Chao ch [10]
  Puts (" Enter Chadacter");
   gets (ch);
  Puts ("Chadacted array using gets");
      Puts (ch);
```

POORNIMA Lecture No. Date **Faculty** Subject Name Subject Code Main Topics:-FILE HANDLING: File handling in C++ is a mechanism to stool the author of a pragram and help Perform Warlay operation on it. -> Files are used to store data in Storage device Permenanty - In ctt we have a set of file handling methods. These include itstoeam, ofstoeam and fstoeam. These classes designed to manage disc file, are declared in Estream and therefore we must include this file in any program uses files _) Stolam is an operation that represent device on which operation of input and autput are proformed. A STREAM CAN Be depresented as a sewoce or destination of a chadacter of indefinite length depending on Hs Wages. Three classes of of stream, if stream, fortream OFSTREAM 926. -OFSTREAM: This stream class signify the autput file stram and is applied to create fixe for waiting information to file

ain Ideas, Questions & Summary:_

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ITSTREAM: This stocam closs stonify the is applied ocading information in the is applied ocading information in the food worth food worth food worth food operation in the Handling of coate a file and also us apen onexisting file.

2. Read(): it is use for ocading data foom a file worther it is use for ocading data foom a file worther): it is use to work new data in file use to close the file.

4. Close(): it is use to close the file.

OPEN A FILE TO Read or enter data to a file we need to the performent.

OPEN A FILE TO Read or enter data to a file we need to

Open it flast. This can be performed with

the help of if stateam for acading and fishe

for worthing or appending to the file

SYNTAX OF OPEN ?

open (Fit tilename mode);

Here filename _ name of the file which has open,

mode - different mode to open a file.

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Date	Unit No.	Lecture No.	Faculty	Subject Name	Subject Code	Main Topics:-
5	MODE	,			O ESC	RIPITON
	in		op.	en the	fire -	to read (defaut for
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	OSP		0.00		tile w	and appends the
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Default open mode - lifstream - in of out fortheam - in or out

ebsite Ref.:-

s, Questions & Summary:_

PROGRAM FOR OPEN FILE: # include <fs+2 can, int main () peading_ # incurse < fstream-h> Efstacom filename; Int main () file name open ("filename tat fstream filename; if (! filename) filename. open ("filename", "aw"); Caut << " E 03-00 while co-eating We if (! filename) al Caut Exter taunie coeating esse Court Cc" file coeated & walted a file"? on file"; esse Filename << " Abst file ". W Filename. Close (); Cout < c" file sucessferry (readed"; File name . close (); setumo; retum o; we will learn how to wolte data to file WRITING APILE unich he coeated before. We will use fstream or afstream abject to write data into file; perelion > we use stream insertion operation. insertion operation (CC) (ii) extention aperation (>>) i) insertion operation along with the text in flow with in the double 'Ellates'.

POORNIMA Lecture No. Date Main Topics:-Faculty Subject Code Subject Name Getting the date from the file is an Reading a File: essential thing to perform because withaut data we can not perform any task. we can perform the reading of the data from a file with the CIN get the data from a uses, but we USE CIN to take inputs from the user. Standard Consale. # include &-Pstacam.b> int main () f stream new-file; if (filestaeam. open()) new file open ("new-file watte . exe", ios: in); E files to earnex "welcome file if (I new-file) filestaeam<< "waiting"; Caut CC" nosuch file"; 6126 filestocamiclose (); 5 chga-ch; while (mew the eaf(1) Canda" file does natopen". { new-A'le >> ch; Caut << ch: refusino; new-file · close () setum 0; Ideas, Questions & Summary: y / Website Ref.:-

of her method for Reading # includer fotocom h) int main (1 5 242 Butter 5 Hstream filestoeam ("A. ext"); if (filestoeam. open()) E unite (get une (file ment) stoleam, sto) { Cout < str < end; Filestream. close 020 { Cout << "fire does not apen"; reteron o; Close a file: It simply done by close () funding # include <fotreamin) int main () E fstream new-file; new-file . open/a.txt, ios: and); new file Clase (); setumo;