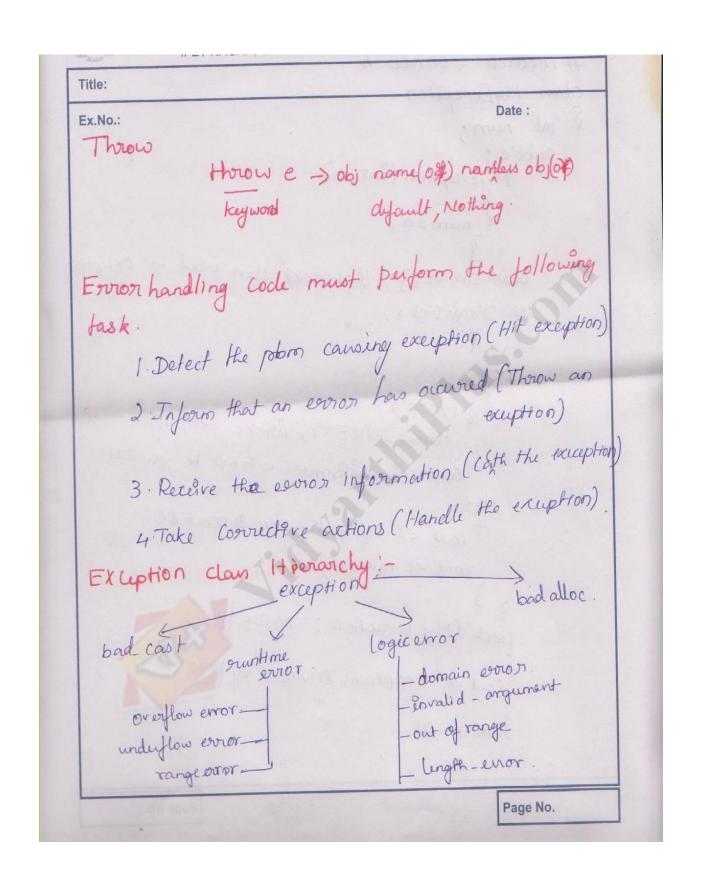
restable to the state of the st	
Title: UNIT-III	parties and the
Ex.No.: 1) Exception Handling.	Date:
2) Streams of Formetted I/1	0 .
3) File handling.	pardonapid &
4) Namespace	in the second second
1 of the objects	James of C
5) String Objects Libra	ry.
5) Standard template Liberal	make de herework from
1 Landling'-	
) Exeption handling!	unexpected Condition
Exception refers to	bridge / Sepalific 1
Exception handling!- Exception refers to	
on a program.	- orticular port
Egoron occurring in	another port of
al le morroum are supor	ited to woment.
of the program are super the program known as the	calling environ
2 -000000 1 W	
1 5. 10 mag Number.	2 mg is to the
1) Retwing both 1	as asmos variable.
2) Global flag manipulation	
3) Abnormal tumin ation.	> ovion would every
	crash the pgm,
Page No.	Page No.

```
Need for exception handling!
      -> Dividing the error handling.
      > To some the obj choron ploor.
      -> Separating error reporting and evoron
      >To provide un conditional termination of
      handling.
 programmer professed termination.
Components of Exception handling Mechanism,
   1) try-for indicating pgro area where the
                     exeception can be thrown.
  2) throw- for throwing an exception.
  3) catch - for taking an action for Specific
   1/code for raising exception Action for handling
                                      Page No.
```

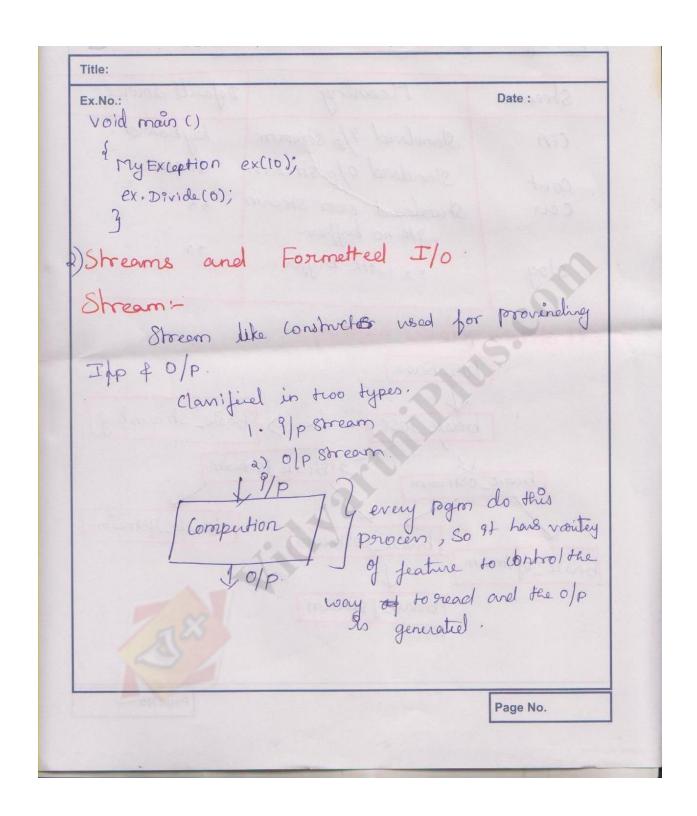
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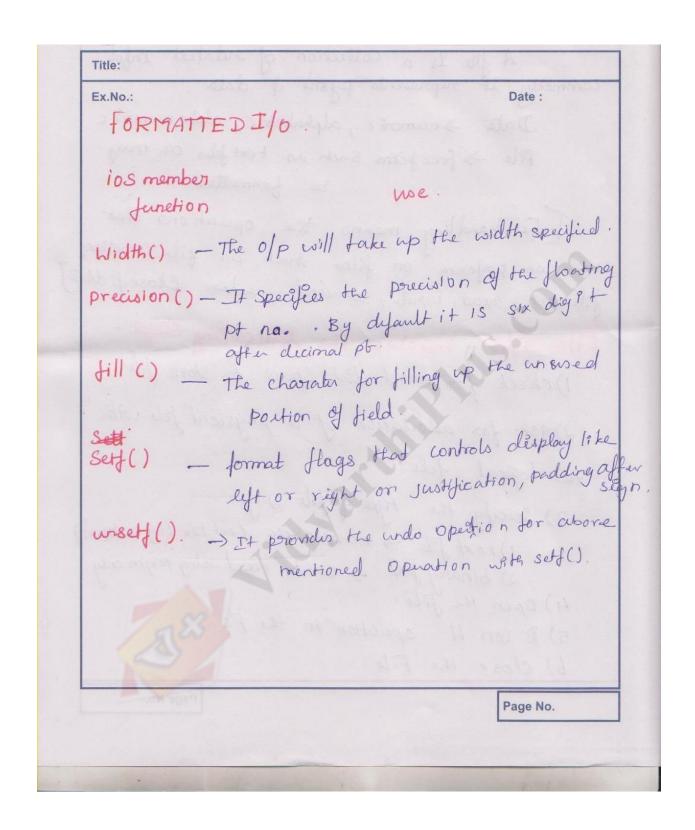
```
#include Liostreams
#include < come . h
S'int num;
    eublic:
        My Exception (ent a)
         & num = a;
      clan DIVIDE & 3; Il abstract clan used in exception
      int Divide (int x)
            if (x==0)
               throw DIVIDE (); // graise exception.
             cont << " tens Street will not be executed
          else
            E cout cc" trying division sucreeded".
             cont << num/x;
         Catch (My Exception :: DIVIDE)
         { Cout < " Exception! Division by zoro
         getwin 0',
                                           Page No.
```

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Stream	Reaning	Default Source.
Cin	Standard 9/p Stream	keybowid.
Cont	standard o/p stream	south,
cen	Standard enor Stream,	99
alna	with no buffer.	9.0
clog.	99 62114 11	HIP.
H Stream	classes hierarchy!	
	OS-boxe	
		Lase Stream Bul
_	basic josc)>	
basic_	08 recorm Sbasic_ish	seam,
1/	1	basic_ifstream
pasic_ofstrea	m. basic_108 tream	
	basic_stream	

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```
File handling -
A file is a collection of sulated enfol.
commonly it represents passis & data.
       Data snumeric, alphabetic, alphanumeric
       file -> free form such as text fells or many
                           be formatteel.
  [File handling means the operations that
we can perform on files such as file creation,
file open, read, write, ruwind, colore flose fallete
File I/o involves the following steps:-
   1) check for hard disk space to store file.
   2) Ask for association of a physical file with
  the logical file.
    3) Specify the type of file 2 Type.
       1) text file > +0 open the text file (eg Notepod)
        2) binary file . > can be recad using room only
   4) Open the file.
    5) R (or) H operation to the F's.
    b) close the File.
                                         Page No.
```

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```
Title:
                                            Date:
File Stream Classes : operations
   i) if stream - open (), get (), getline (), read (), Seekg (),
[ i/p file]
a) of Stream. - open (), peut (), Seekp(), tellp (), worth ()
 [olp file]
3) f Stream. - It Support if Stream & of Stream
 [1/0 file] operations.
Text file program: - [text file]
   #tinelucle (io Stream. h)
   #include < stream.h>
   void main ()
    & char 1/P, 0/P'
     Ofstream Entry File ("Test. dut");
      cout (" input: " < end!;
     while (1)
    ¿ cins input;
    if (input = = 15") break;
    2 Entry File ( inpert;
                                            Page No.
```

```
Entry File. Chose ();
cont << " outpert: "</ end );
ijstream DisplayFile (" Test. 6xt");
  while (1, DisplayFile.cof())
    Display File unsety (los: SkipWS);
    Display File & outpert;
    cost < content;
   2) Display File. Close ()',
Input:
      abcds
 output:
                                                      Page No.
```

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```
Title:
                                                Pg:5-23
Ex. No.:
Binary File:
#include Liostream.h>
 #include < fst-ream. h>
 void main()
    chas input, output;
     ofstream Entryfile ("Test. dot", ios::inlios::
     cout z < "Input: " Z Lend 1;
     while (1)
         cin syinput;
         if (input =='e') break;
          Entry File Linput;
        Entry File. close ();
        coutes" Output: " ecend!;
        if Stream Displayfile ("Test. dat", ios::
                     intios:: binary); It binary mode
        while (! Display File. eof ())
                                          Page No.
```

```
DisplayFile >> Output;
     2 cout << Output zz"It";
      DisplayFile. Close ();
   Input:
    abcde
    output generaled by this program
The
     output:
                                   Page No.
```

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Title:	a la familia de
Ex. No.:	Date:
Name Spaces:- To localize the names	, of identificration
and collision.	inpllict
In S/w projects lead to mon pbm, especially with multiple	Clem 116 rovers
is operation. Name Conflict prol	olem
It was impossible for	the compiler to
distinguish blus diff classes	that had
Identical names.	
The Using Syntax:- 1) Waing declaration 2) wains directive. > wain	g namespace stol;
oc) hours occio	V
# Include L'isstream.h)	
2) using directive. > using # Include Liostream.h> void main () \$ using std:: cout; cout << " welcome to names. The state of the s	

```
Dedoring a function inside and defining outside
the Namespace
  #Include < 108 tream>
   using name space std;
   ramespace myLib.
      int a,b;
      word but); Il declaration.
    void put();
    void myLibi; Gret () Il defining outside the names parce
     { cin >> a>> b;
     void mylib: : put().
      { contexa << b;
     wing namespore mylib, // wing dreckere
      void mais ()
        (ret();
       put();
                                            Page No.
```

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```
Pg. 5.33
                                      Date:
Declaring a member function inside and defining
Outside the Namespace: -
    #Include Liostream>
    using namespace std;
    namespace mylib
     E class student 11 class declaration
            int roll:
            char name [20];
            Public:
               void cret(); //member function declar
               void put(); // " "
           3;
        void mylib: Steedent: : Gret () / defining out
                                            the class
               Cin >> mylib: student: roll; Musine
               (in >> mylib: : Student: : name . memb
                                        Page No.
```

```
void mylib: Student: Put () Molefining outside the glas
    Cout zemylib: student: voll; //using data
    Cout LCHylib :: Student :: name;
  using namespace mylib; //wing directive
  void main ()
      mylib: Students; Mobject creation
      s. Get();
       s. Put ();
                                   Page No.
```

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Ex No. Shin		Date:	
	Object:	PAISS Ra	
1) Greating S	hing.	()	ofts
DDg	astrobj en and	ormal way.	
F Philips	String Si;		
2)Del (a strobý wing d	nitialization	
	String S2.	1140	a 16 /
	String S, (S2) or S	dring SI=S2.	
3) Def	a string obs using	a constructor.	
	String SI('hi")		
	(DI)		alp-A
	String Si=hi"		
2) Sub 8 tring	Opuator!-		
i) di	nd () eg:-	dad wat 9	C=
	China Louth	('Bill is so young,	So your
	Int first = Y	outh-find ("young");	1 * 10*2 1 530
128	Trah	ر که ۱۱	(30
a) out	().		
	String S, ("hello S, at (o)	h is a char a	+ locati
	21.00(0)		
		Page	No.

```
3) Insert ()
     eg string SI("Miss Summer");
        S1. insert (5," Rami 11);
        OP Miss Ram Summer
4) erase ()
          String S ("the Summer-time");
         S. erase (4,7) // Slart position: 4 Quantity 7.
          O/P The time.
5) append ()
          String SI = hello".
           Si append ("how are you?");
         O/p hello how are you?.
b) Replace () String SI ("There They go again!"), Sa ("bob of Bill");
           S1. replace (6,4,52).
     O/P There bob and bill go again.
Operations Involving multiple strings:
             String Sz = "hello";
String Sz = "how are you 9";
  a) +
               String S3 = S+S2.
                                        Page No.
```

Ex. No. :	Date:
Swapping two Strings.	
String Si="one";	
S. J.	
String Sz = " two";	
S, Swap(S2);	
Standard Template Librar	oul STL)
> STL is a coll and containers that communic	dias of agnesic alg
> STL is a con	action of features
and containers that communic	are wood libraries
> STL is different	brom normal libraries
STI Company to	
	opience contaîners
1) Containers So	inted & ssociative containers
2) algorithms.	dreus me chanis m
fur	uctional mechanis"
4) function objects	
5) adaptors.	
6) allocators.	
n Manual I	DN
	Page No.