



EXP NO . -8

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BRANCH – C.S.E B.TECH

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SEC/GROUP – 26(B)

SUBJECT – C++ LAB

D.O.P – 8 MAY 2021

**Aim of Experiment** – WAP to perform exception handling for Divide by zero Exception.

## Flowchart –

```
USING NAMESPACE STD;  
DOUBLE DIV (int a,int b)  
B==0  
Throw "div by zero condi! true  
False
```

```
a/b  
int main ()  
int x = 50  
int y = 0  
dou z = 0  
try  
z =div(x,y)  
cout  
z  
catch(cons char)  
endl  
o
```

Subject – C ++ Lab

## PROGRAM CODE -

```
1  #include <iostream>
2
3  using namespace std;
4
5  double division(int a, int b) {
6
7  if( b == 0 ) {
8
9  throw "Division by zero condition!";
10
11 }
12
13 return (a/b);
14
15 }
16
17 int main () {
18
19 int x = 50;
20
21 int y = 0;
22
23 double z = 0;
24
25 try {
26
27 z = division(x, y);
28
29 cout<< z <<endl;
30
31 } catch (const char* msg) {
32
33 cerr<< msg <<endl; }
34
35 return 0;
36
37 }
```



## OUTPUT PROGRAM –

```
PowerShell 7.1.0  
Copyright (c) Microsoft Corporation.
```

```
https://aka.ms/powershell  
Type 'help' to get help.
```

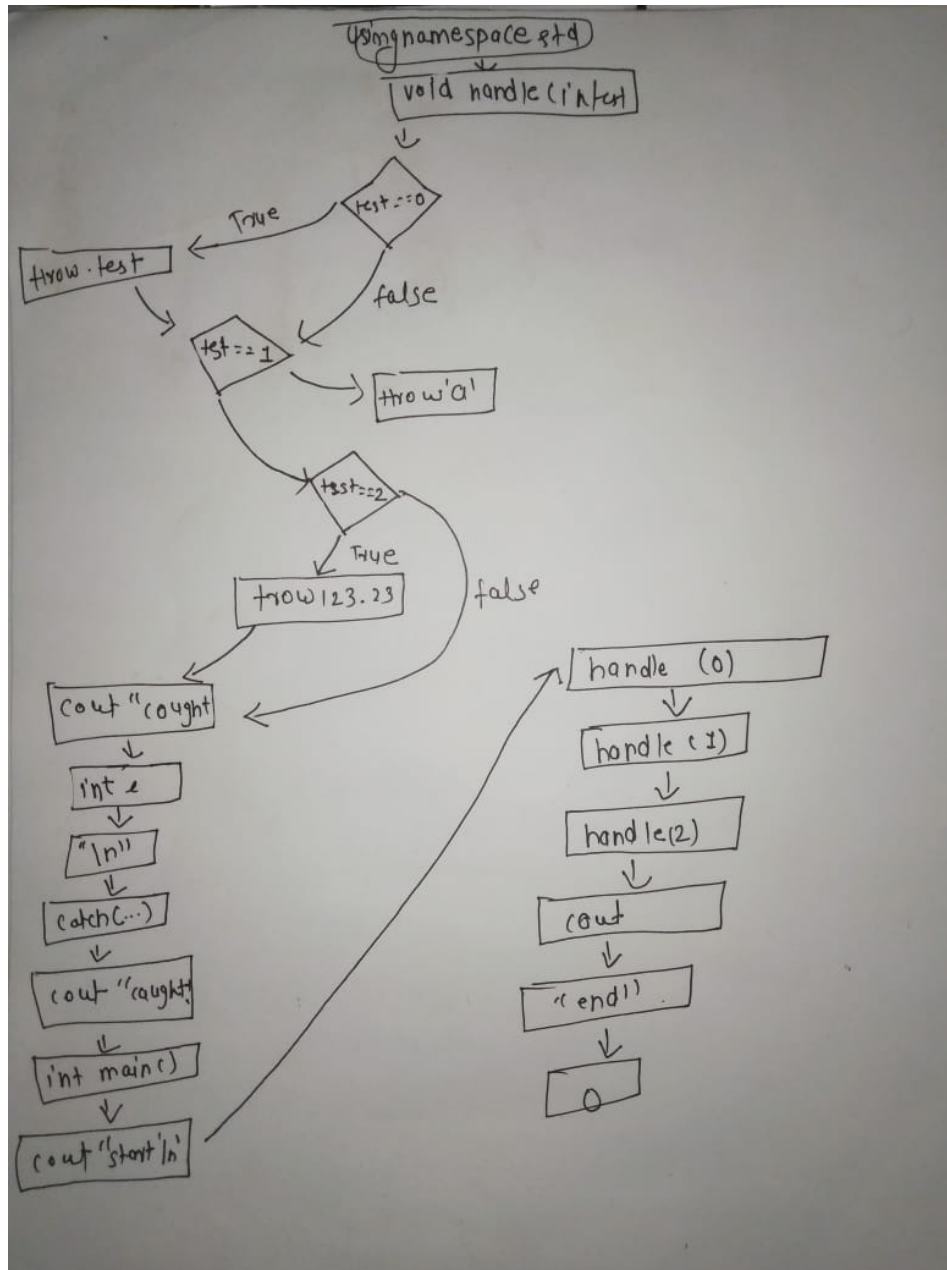
```
A new PowerShell stable release is available: v7.1.3  
Upgrade now, or check out the release page at:  
https://aka.ms/PowerShell-Release?tag=v7.1.3
```

```
PS D:\coding files> cd "d:\coding files\c++ files\" ; if ($?)  
Division by zero condition!  
PS D:\coding files\c++ files> █
```

## Aim of Experiment -

WAP to implement the exception handling with the functionality of testing the throw restrictions.

FLOWCHART -



## PROGRAM CODE-

```
c++ files > G+ coderunner.c++ > handle(int)
1  #include <iostream>
2
3  #include <conio.h>
4
5  using namespace std;
6
7  void handle(int test)
8
9  {
10
11     try
12     {
13
14         if (test == 0)
15             throw test; // throw int
16
17         if (test == 1)
18             throw 'a'; // throw char
19
20         if (test == 2)
21             throw 123.23; // throw double
22
23     }
24
25     catch (int i)
26     { // catch an int exception
27
28         cout << "Caught " << i << "\n";
29     }
30
31     catch (...)
32     { // catch all other exceptions
33
34         cout << "Caught one!\n";
35     }
36
37 }
38
39
40 int main()
41 {
42
43     cout << "start\n";
44
45     handle(0);
46
47     handle(1);
48
49     handle(2);
50
51     cout << "end";
52
53     return 0;
54 }
```



## OUTPUT PROGRAM –

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PowerShell 7.1.0
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https://aka.ms/PowerShell-Release?tag=v7.1.3

PS D:\coding files> cd "d:\coding files\c++ files\" ; if ($?)
start
Caught 0
Caught one!
Caught one!
end
PS D:\coding files\c++ files> █
```



**EVALUATION COLUMN (To be filled by concerned faculty only)**

<b>Sr. No.</b>	<b>Parameters</b>	<b>Maximum Marks</b>	<b>Marks Obtained</b>
1.	Post Lab Quiz Result.	5	
2.	Worksheet completion including writing learning objectives/Outcomes.(To be submitted at the end of the day)	10	
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.	5	
4.	Total Marks	20	