

Computer Programming Paradigm Lab
Lab Experiment No. 9

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Batch: C

Roll. No.: 60
Div: D10A

Aim: Implement Exception handling in C++.

Problem Statement & Output:

Find the sum of given numbers given in by the user during runtime. Terminate the input when -99 is received as input. Demonstrate exception handling, by throwing an exception when -99 is received as input and handle it.

```
#include <iostream>
#include <string>
using namespace std;

class myException : public exception
{
public:
    const char *what() const throw()
    {
        return "Invalid Number: You have entered -99 to add in the sum!\n";
    }
};

int main()
{
    cout << "D10A_60_Shashwat Tripathi" << endl;
    int x, sum = 0;

    do
    {
        cout << "Please enter a number:\n";
        cin >> x;
        if (x != -99)
        {
            sum = sum + x;
            cout << "SUM: ";
            cout << sum << endl;
        }
    } while (x != -99);
    if (x == -99)
    {
        try
        {
            if (x == -99)
            {
                throw new myException;
            }
        }
        catch (myException e)
        {
            cout << e.what() << endl;
        }
    }
}
```

```
}  
}
```

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22621.521]
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C:\Users\shweta\Documents\Shashwat\Notepad++\PCPF>g++ PCPFLab9.cpp

C:\Users\shweta\Documents\Shashwat\Notepad++\PCPF>a

D10A_60_Shashwat Tripathi

Please enter a number:

44

SUM: 44

Please enter a number:

55

SUM: 99

Please enter a number:

51

SUM: 150

Please enter a number:

60

SUM: 210

Please enter a number:

-99

terminate called after throwing an instance of 'myException*'

C:\Users\shweta\Documents\Shashwat\Notepad++\PCPF>