

# Practical-11

**Q. Program to calculate the division of two numbers and perform exception handling .**

## Code:-

```
//Harsh Bamotra
//Program to divide to numbers and perform exception handling

#include <iostream>
using namespace std;

int main()
{
    double p , q;           //Defining variables
    string ch="Y";
    while(ch=="Y" || ch=="y")
    {
        cout << endl << "***** Division of two numbers *****" << endl;
        cout << "Enter the numerator ::";
        cin >> p;             //taking input from the user
        cout << "Enter the denomenator ::";
        cin >> q;             //taking input from the user
        try
        {
            if(q==0)          //checking exception
            {
                throw q;      //throwing the value of q
            }
            else               //printing division of p and q
            {
                cout << "The division of p and q is ::" << p/q << endl;
            }
        }
    }

    catch(double err)         //catching the thrown value
    {
        cout << "Error !! Division by " << err << " is not allowed !!" << endl;
    }                          //printing the error message

    cout << "*****" << endl;
    cout << "Do you want to continue (Y/y) or (N/n)::";
    cin >> ch;                //asking the user if he wants continue
}

return 0;
}
```

## Output:-

```
C:\> Command Prompt
Microsoft Windows [Version 10.0.19042.804]
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C:\Users\harsh>cd desktop

C:\Users\harsh\Desktop>cd AC-1216

C:\Users\harsh\Desktop\AC-1216>cd Practicales

C:\Users\harsh\Desktop\AC-1216\Practicales>Practical-11.exe

***** Division of two numbers *****
Enter the numerator ::12
Enter the denominator ::12
The division of p and q is ::1
*****
Do you want to continue (Y/y) or (N/n)::y

***** Division of two numbers *****
Enter the numerator ::12
Enter the denominator ::0
Error !! Division by 0 is not allowed !!
*****
Do you want to continue (Y/y) or (N/n)::n

C:\Users\harsh\Desktop\AC-1216\Practicales>
```

Harsh Bamotra

AC-1216