

OOP TUTORIAL 6

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CODE:

```
/* Exception Handling
```

```
Design a program with the following functionalities:
```

1. A function to read two numbers(Double type)
2. A function to calculate division of these two numbers
3. A try block to detect and throw an exception when divide by zero condition occurs
4. Appropriate catch block to handle the exception thrown*/

```
#include <iostream>
using namespace std;
class Student{
    double x,y;
public:
    void accept();
    void calculate();
};
void Student ::accept(){
    cout<<"Enter the first number(double):";
    cin>>x;
    cout<<"Enter the second number(double):";
    cin>>y;
};
void Student :: calculate(){
    try{
        if(y==0){
            throw y;
        }else{
            cout <<"Division of the numbers is :"<<x/y<<endl;
        }
    }
    catch(double y){
        cout<<"Catched divide by 0 Exception";
    }
}
int main(){
    Student s1,s2;
    s1.accept();
    s1.calculate();
    s2.accept();
    s2.calculate();
    return 0;
}
```

OUTPUT:

```
Enter the first number(double):13.55
Enter the second number(double):2.65
Division of the numbers is :5.11321
Enter the first number(double):35.76
Enter the second number(double):0
Caught divide by 0 Exception
```