

Assignment 6

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Batch: SY2(C)

/*

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 divideby zero condition occurs
4. Appropriate catch block to handle the exception thrown

*/

```
#include<iostream>
```

```
usingnamespacestd; class
```

```
student
```

```
{
```

```
    public:double x,y; void
```

```
    accept(); void display();
```

```
};
```

```
void student::accept()
```

```
{
```

```
    cout<<"Enter two numbers of doublevalue"<<endl;
```

```
    cin>>x>>y;
```

```
}
```

```
void student::display()
```

```
{
```

```
    try
```

```

{

}

if(y==0) throw y;
cout<<"The division is:"<<x/y;
    catch(double y)
    {
        cout<<"Caught Divide by zero exception."<<endl;
    }
}

int main()
{
    student s; s.accept();
    s.display(); return 0;
}

```

Output :-

Enter two numbers of double value
45.18 18.45
The division is:2.44878

Enter two numbers of double value
45.18 0.0
Caught Divide by zero exception.