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

int divide(int a,int b){
    int c;
    try{
        if(b==0)
            throw b;
        c=a/b;
        return c;
    }
    catch(int x){
        cout<<"Rethrow exception\n";
        throw;
    }
}

int main()
{
    int a,b,c,n;
    int arr[]={1,2,3};
    cout<<"Input 1st no:";
    cin>>a;
    cout<<"Input 2nd no:";
    cin>>b;
    cout<<"input index:";
    cin>>n;

    try{
        c=divide(a,b);
        cout<<"Ans = "<<c<<endl;
        if(n>2)
            throw "array index out of bound";
        cout<<arr[n];

        throw 2.0;
    }
    catch(int x){
        cout<<"divide by zero";
    }
    catch(const char *s){
        cout<<s;
    }
    catch(...){
        cout<<"Error";
    }
```

```cpp
    cout<<"\nEnd of Prg";

    return 0;
}
```