

Exception Handling Examples

```
#include<iostream.h>
#include<conio.h>

float division(int x, int y)
{
    return (x/y);
}
```

```
void main()
{
    int i = 50;
    int j = 0;
    float k = 0;

    k = division(i, j);
    cout << k << endl;
}
```

```
#include<iostream.h>
#include<conio.h>

float division(int x, int y)
{
    if( y == 0 )
    {
        throw "Attempted to divide by zero!";
    }
    return (x/y);
}
```

```
void main()
{
    int i = 25;
    int j = 0;
    float k = 0;

    try
    {
        k = division(i, j);
        cout << k << endl;
    }
```

```
    }

    catch (const char* e)
    {
        cerr << e << endl;
    }
}

#include<iostream.h>
#include<conio.h>

void main()
{
    int x;

    try
    {
        cout<<"Enter the number: ";
        cin>>x;

        if(x!=0)
        {
            cout<<"Value: "<<x;
        }
        else
        {
            throw(x);
        }
    }
    catch(int i)
    {
        cout<<"Caught an Exception";
    }
}
```

```
#include<iostream.h>
#include<conio.h>

void main()
{
    int x;

    try
    {
        cout<<"Enter the number: ";
        cin>>x;
        if(x == 0)
        {
            throw (x);
        }
        else if(x > 0)
        {
            throw (x);
        }
        else if (x < 0)
        {
            throw (x);
        }
        else
        {
            cout<<"Something Special";
        }
    }
    catch(...)
    {
        cout<<"Caught an Exception";
    }
}
```

```
#include<iostream.h>
#include<conio.h>

void main()
{
    int x;
    try
    {
        cout<<"Enter the number: ";
        cin>>x;

        if(x == 0)
        {
            throw (x);
        }
        else if(x > 0)
        {
            throw ('x');
        }
        else if (x < 0)
        {
            throw (1.0);
        }

        else
        {
            cout<<"Something Special";
        }
    }
    catch(int i)
    {
        cout<<"Caught an Exception";
    }
    catch(char ch)
    {
        cout<<"Caught a character exception";
    }
    catch(double d)
    {
        cout<<"Caught a double exception";
    }
}
```

```
/* Exception within the method */
#include<iostream.h>
#include<conio.h>

void test(int x)
{
    try
    {
        if(x == 0)          throw x;
        if(x == -1)         throw 'x';
        if(x == 1)          throw 1.0;
    }
    catch(...)
    {
        cout<<"\nCaught an Exception...";
    }
}

void main()
{
    test(-1);
    test(0);
    test(1);
}
```