

Creating our Own Exceptions



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Throwing our own Exceptions

- ✓ Exception is a subclass of Throwable class
- ✓ We can throw our own Exceptions using the keyword **throw**
- ✓ Syntax

```
throw new Throwable_subclass;
```

Throwing our own Exceptions - Example

```
import java.lang.Exception;
class MyException extends Exception
{
    MyException(String message)
    {
        super(message);
    }
}
class TestMyException
{
    public static void main(String args[ ])
    {
        int x = 5, y = 1000;
```

```
try
{
    float z = (float) x / (float) y;
    if (z < 0.01)
    {
        throw new MyException("Number is too small");
    }
}
catch(MyException e)
{
    System.out.println("Caught My Exception");
    System.out.println(e.getMessage( ));
}
finally
{
    System.out.println("I am in Finally !!!");
}
}
```

Throwing our own Exceptions - Output

```
F:\jdk1.8.0_111\jdk1.8.0_111\bin>javac TestMyException.java
```

```
F:\jdk1.8.0_111\jdk1.8.0_111\bin>java TestMyException
```

```
Caught My Exception
```

```
Number is too small
```

```
I am in Finally !!!
```

```
F:\jdk1.8.0_111\jdk1.8.0_111\bin>
```

References

- ✓ Programming with Java – A Primer - E. Balagurusamy, 3rd Edition, TMH

Thank You