# **Exceptions Handling**

### Introduction

The Scala programming language's exception handling mechanism is very similar to the mechanism supported by Java.

## Throwing Exceptions

- In order to throw an exception we should use the throw keyword.
- We should instantiate an exception and throw it using the throw keyword.

```
if(num<0)
    throw new RuntimeException("num cannot be negative")
...</pre>
```

## Catching Exceptions

In order to catch exceptions we should use the catch block.

```
try
   //...
catch
   case ex: SQLException => // handle...
   case ex: IOException => // handle...
   case ex: FormatException => // handle...
```

## Catching Exceptions

- Unlike Java, Scala does not require you to catch checked exceptions, or declare them in a throws clause.
- It is possible to declare a throws clause. It isn't required.

## The finally Block

It is possible to define a finally block that will execute no matter whether an exception was thrown or not.

## The finally Block

```
try
catch
finally
```

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```
try
{
    ...
}
catch
{
    ...
}
finally
{
    ...
}
catch
finally
final
```