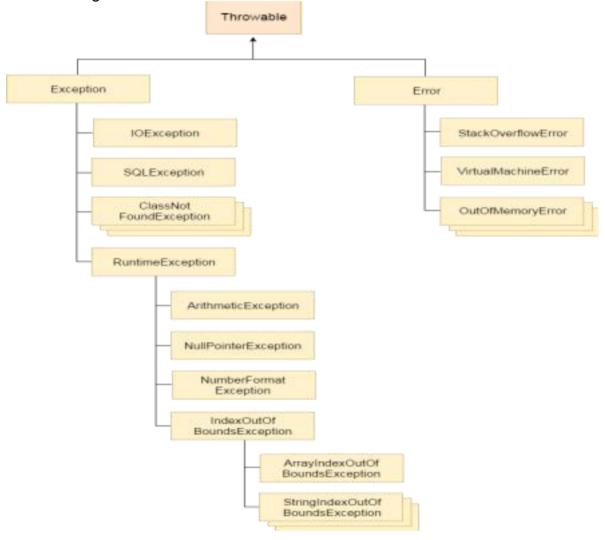
Week 3- Session 4 Interview Questions

1. Explain the hierarchy of Java Exception classes?

The java.lang.Throwable class is the root class of Java Exception hierarchy which is inherited by two subclasses: Exception and Error. A hierarchy of Java Exception classes are given below:



2. What are runtime exceptions in Java? Give an example.

The exceptions which occur at run time are called runtime exceptions. These exceptions are unknown to the compiler. All subclasses of java.lang.RunTimeException and java.lang.Error are runtime exceptions. These exceptions are unchecked type of exceptions. For example,

NumberFormatException, NullPointerException, ClassCastException, ArrayIndexOutOfBoundException, StackOverflowError etc.

3. What is OutOfMemoryError in Java?

OutOfMemoryError is the subclass of java.lang.Error which occurs when JVM runs out of memory.

4. What is Re-throwing an exception in Java?

Exceptions raised in the try block are handled in the catch block. If it is unable to handle that exception, it can re-throw that exception using throw keyword. It is called re-throwing an exception.

5. What is the use of throws keyword in Java?

throws keyword is used to specify the exceptions that a particular method can throw. The syntax for using throws keyword is,

```
return_type method_name(parameter_list) throws exception_list {
  //some statements
}
```

6. Can an exception be rethrown?

Yes

7. Does catch block rethrow an exception in java?

Yes, catch block can rethrow an exception using throw keyword. It is called rethrowing an exception.

8. What are Types of Exception in Java

Exceptions can be categorized into two ways:

- 1. Built-in Exceptions
- o Checked Exception
- o Unchecked Exception
- 2. User-Defined Exceptions

