Exception Handling

Exception:

Exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime.

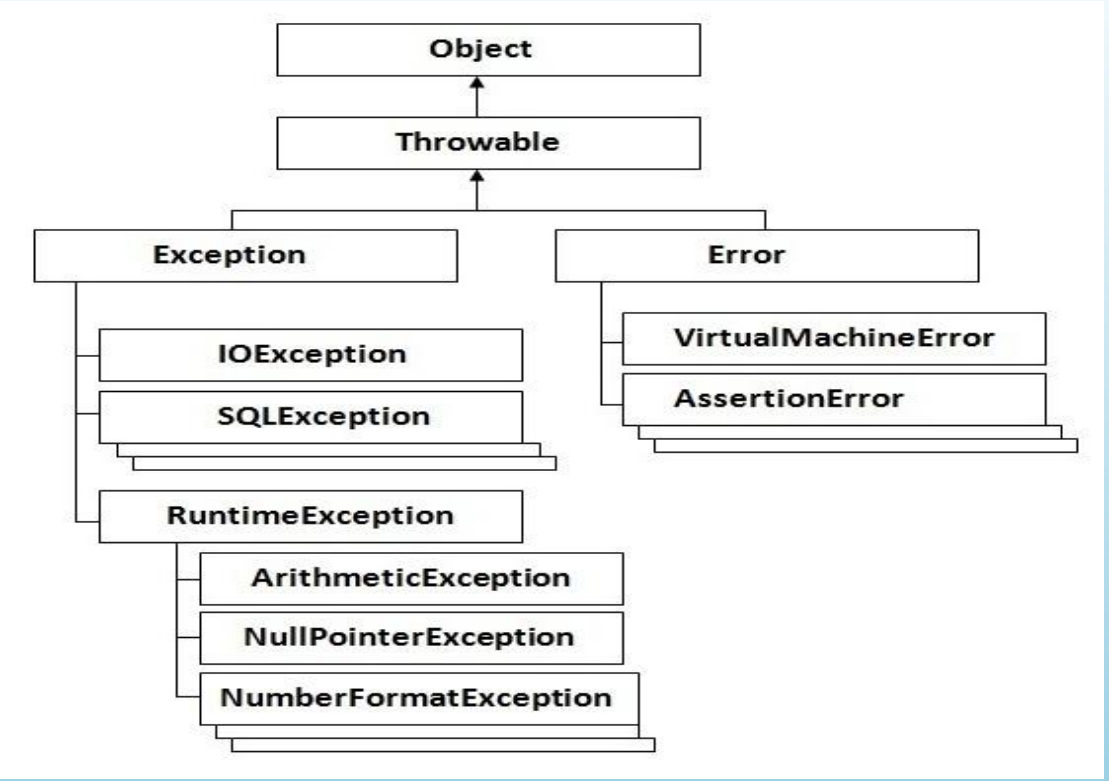
Exception Handling:

Exception Handling is a mechanism to handle runtime errors such as ClassNotFound, IO, SQL, Remote etc

What is exception and exception handling ?

- Runtime Exception
- Compile Time Exception
- Error

Types of Exception



Exception Hierarchy

- Try – is the block where your real logic or implementation exists
- Catch – is the block will catch incase of any exception caught at run time
- Finally – is the block irrespective of exception will execute always

Try , Catch Finally

```
public void getName(String employeeName){
        try{
        // assume employeeName object has null values
        if(employeeName.contains("XXX"){
        }catch(NullpointerException e){
        // Control will come here incase of above case true
        }finally{
        // something will always run
        }
}
}
```

Sample Try Catch with Finally

- Throws is a keyword will be declared in method level
- When there is any compile time exception occurs and you don’t want to handle in the same class / method use throws
- Throws will throw the exception to calling method, where you are forced to handle with either try catch or throws
- We can throws more than one exception
- If we throws exception no need to write try, catch and finally blocks
- Eg. FileNotFound Exception, Thread.sleep()

What is throws in Exception Handling

Throws	Throw
Used in method level signature	Used inside try or catch block
Throws to calling method	Throw to specified exception class

Syntax: method throws Exception {
// method implementation
}
	Syntax: throw **new** Exception class Constructor();

Difference between throw and throws in Exception handling

1. What are keywords are used in exception handling ?
2. Which block is mandatory in exception handling, either try, catch or finally
3. Method should throws only one exception class ?
4. How do you create user defined exception class ?
5. Throw new Exception can be more than in exception handling ?
6. Eclipse will give suggestion to handle exception only for Compile time or Run time ?
7. Who is super most class of exception handlings ?
8. How many types of exception do we have ?

Understanding of exception handling

References

- JavaTpoint
- TestLeaf videos
- Wikipeida

Thank You…