Exceptions, Maven and Junit:

1. **class** ExceptionExample{
2. **def** divide(a:**Int**, b:**Int**) = {
3. a/b             // Exception occurred here
4. println("Rest of the code is executing...")
5. }
6. }
7. **object** MainObject{
8. **def** main(args:Array[String]){
9. **var** e = **new** ExceptionExample()
10. e.divide(100,0)
12. }
13. }
14. **class** ExceptionExample{
15. **def** divide(a:**Int**, b:**Int**) = {
16. **try**{
17. a/b
18. **var** arr = Array(1,2)
19. arr(10)
20. }**catch**{
21. **case** e: ArithmeticException => println(e)
22. **case** ex: Throwable =>println("found a unknown exception"+ ex)
23. }
24. println("Rest of the code is executing...")
25. }
26. }
27. **object** MainObject{
28. **def** main(args:Array[String]){
29. **var** e = **new** ExceptionExample()
30. e.divide(100,10)
32. }
33. }
34. **class** ExceptionExample{
35. **def** divide(a:**Int**, b:**Int**) = {
36. **try**{
37. a/b
38. **var** arr = Array(1,2)
39. arr(10)
40. }**catch**{
41. **case** e: ArithmeticException => println(e)
42. **case** ex: Exception =>println(ex)
43. **case** th: Throwable=>println("found a unknown exception"+th)
44. }
45. finally{
46. println("Finaly block always executes")
47. }
48. println("Rest of the code is executing...")
49. }
50. }

53. **object** MainObject{
54. **def** main(args:Array[String]){
55. **var** e = **new** ExceptionExample()
56. e.divide(100,10)
58. }
59. }

What is Maven:

**Maven** is an automation and management tool developed by Apache Software Foundation. It is written in Java Language to build projects written in C#, [Ruby](https://www.guru99.com/ruby-on-rails-tutorial.html), Scala, and other languages. It allows developers to create projects, dependency, and documentation using Project Object Model and plugins. It has a similar development process as ANT, but it is more advanced than ANT.

**How to use Maven**

* To configure the Maven in Java, you need to use Project Object Model, which is stored in a pom.xml-file.
* POM includes all the configuration setting related to Maven. Plugins can be configured and edit in the <plugins> tag of a pom.xml file. And developer can use any plugin without much detail of each plugin.
* When user start working on Maven Project, it provides default setting of configuration, so the user does not need to add every configuration in pom.xml

POM.xml can implicitly provide all the dependencies to the project.

Will demo in the class!!

Pyunit:

[Unit Testing](https://www.guru99.com/unit-testing-guide.html) in[Python](https://www.guru99.com/python-tutorials.html)is done to identify bugs early in the development stage of the application when bugs are less recurrent and less expensive to fix.

Will demo in the class!!!