**Java**

Assignment - Day 10

Concept: Annotations & Java 7 new features

Objective: At the end of the assignment, participants will be able to:

* Use Annotations
* Apply the Java 7 new functionalities

Problems:

1. Create a class **MyComponent** and mark the class as deprecated using the suitable annotation. Try to instantiate the class and observe the warning message produced.

Note : It is always good to document why is it deprecated and what to use instead. So include the below javadoc comment without fail

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\* @deprecated use of MyComponent

\* is discouraged, use

\* MyNewComponent instead.

\*/

1. Create a class **MySuperClass** with a method greet() printing a greeting message. Inherit the class to create **MySubClass** and override the greet method. Mark the method with @Override in the sub class.

Try changing the method name in the base class. What is the inference?

1. Define an annotation type **Copyright** with elements info and year. Specify the default value of info as TechM. Use this annotation anywhere in your own classes.
2. Modify the above annotation type with @TARGET so as to use it only on classes. Also use @RETENTION to mark our annotation to be retained by JVM at Runtime.
3. Write a java program to read a string (operands and operation) as command line arguments. The operation can be add/sub/mul/div. Based on the string, perform the operation between the operands and produce the result.

Ex) java MyCalc add 5 4

Output

5 + 4 = 9

Note : Use switch case with strings for checking the operation.

1. Write a java program to copy one file to another file character by character. Use try-with-resources statement, which ensures that each resource opened in try() is closed at the end of the statement