## Module-7 Selenium-testNG

## **Problem Statement 1: Implementing Retry Mechanism**

Implement a retry mechanism for failed tests using the IAnnotationTransformer interface. Customize the retry behavior for specific tests, allowing them to rerun a specified number of times upon failure.

```
package testNG;
import org.testng.IRetryAnalyzer;
import org.testng.ITestResult;

public class RetryAnalyzer implements IRetryAnalyzer {
    private int retryCount = 0; // Current retry attempt
    private static final int maxRetryCount = 3; // Maximum retry attempts

    @Override
    public boolean retry(ITestResult result) {
        if (retryCount < maxRetryCount) {
            retryCount++;
            System.out.println("Retrying test: " + result.getName() + " |

Attempt: " + retryCount);
            return true; // Retry the test
        }
        return false; // No more retries
    }
}</pre>
```

```
import org.testng.IAnnotationTransformer;
import org.testng.annotations.ITestAnnotation;
import java.lang.reflect.Constructor;
import java.lang.reflect.Method;

public class RetryTransformer implements IAnnotationTransformer {
    @Override
    public void transform(ITestAnnotation annotation, Class testClass,
    Constructor testConstructor, Method testMethod) {
        // Apply RetryAnalyzer to all tests
        annotation.setRetryAnalyzer(RetryAnalyzer.class);
    }
}
```

```
package testNG;
import org.testng.Assert;
import org.testng.annotations.Test;

public class RetryTest {

// @Test(retryAnalyzer = RetryAnalyzer.class)
    @Test
    void retryTest() {
        Assert.fail();
    }
}
```