Module-7 Selenium-testNG

Problem Statement 1: Custom Annotation for Test Methods Create a Java program that utilizes custom annotations for test methods. Define annotations such as @SmokeTest and @RegressionTest and use them to categorize and execute specific groups of test methods.

```
ackage testNG;
mport java.lang.annotation.Retention;
.mport java.lang.annotation.RetentionPolicy;
import java.lang.reflect.Method;
     @Retention(RetentionPolicy.RUNTIME)
     @Retention(RetentionPolicy.RUNTIME)
   public void smokeTest() {System.out.println("Executing Smoke Test");}
   public void regressionTest() {System.out.println("Executing Regression
Test");}
   public void smokeAndRegressionTest() {System.out.println("Executing Both
Smoke and Regression Test");}
   public static void main(String[] args) {
       Method[] methods = test.getClass().getMethods();
                    .out.println("Running Smoke Test: " + method.getName());
                   method.invoke(test);
                   e.printStackTrace();
               (method.isAnnotationPresent(RegressionTest.class)) {
                System.out.println("Running Regression Test: "
+method.getName());
                   method.invoke(test);
```

```
e.printStackTrace();
}
}
}
}
```

Problem Statement 2: Running Tests in Parallel - XML Configuration Extend the program to include XML configuration for parallel execution. Create an XML file that defines test suites and configurations for running tests in parallel. Execute the tests using the XML configuration.

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

public class TestNGexample {

    @Test
    void testMethod1() {
        System.out.println("method-1");
    }
    @Test

    void appleMethod() {
        System.out.println("method-apple");
    }

    @Test
    void manMethod() {
        System.out.println("method-man");
    }

    @Test
    void bigMethod() {
        System.out.println("method-big");
}
```

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

public class TestNGparallelExecution {
    @Test(priority=2)

    void priority2Method() {
        System.out.println("parallel execution");
    }
}
```

testNG.xml