## 15. Demonstrate using listeners in Selenium.

## **Step 1:** Using iTestListener:

- Listener is an interface that modifies the TestNG behavior.
- Listener listens to the event defined in the Selenium and behaves accordingly.
- It is used in Selenium by implementing Listeners Interface.
- iTestListener is used in Selenium to generate logs or customize the TestNG reports.
- iTestListener has the following methods:
  - a. **onStart:** onStart method is called when any Test starts.
  - b. onTestSuccess: onTestSuccess method is called on the success of any Test.
  - c. **onTestFailure:** onTestFailure method is called on the failure of any test.
  - d. **onTestSkipped:** onTestSkipped method is called when any test gets skipped.
  - e. **onTestFailedButWithinSuccessPercentage:** onTestFailedButWithinSuccessPercentage method is called each time Test fails but within the success percentage.
  - f. onFinish: onFinish method is called after all the tests are executed.
- Open Eclipse and create a Project.
- Create a Listener class that will implement iTestListener.
- The code in Eclipse will look like:

```
package test.testing;
import org.testng.ITestContext;
import org.testng.ITestListener;
import org.testng.ITestResult;

public class ListenersTest implements ITestListener {

    public void onFinish(ITestContext Result) {

        System.out.println(Result.getName()+"case finished");

    }

    public void onStart(ITestContext Result) {

        // TODO Auto-generated method stub

    }

    public void onTestFailedButWithinSuccessPercentage(ITestResult Result) {

        // TODO Auto-generated method stub

    }

    public void onTestFailure(ITestResult Result) {

        // TODO Auto-generated method stub

        System.out.println("The name of the testcase failed is :"+Result.getName());
    }
```

```
public void onTestSkipped(ITestResult Result) {
    // TODO Auto-generated method stub
    System.out.println("The name of the testcase Skipped is :"+Result.getName());
}

public void onTestStart(ITestResult Result) {
    // TODO Auto-generated method stub
    System.out.println(Result.getName()+" test case started");
}

public void onTestSuccess(ITestResult Result) {
    // TODO Auto-generated method stub
    System.out.println("The name of the testcase passed is :"+Result.getName());
}
```

- Create a Java class and implement a Listener class in this.
- The code in Eclipse will look like:

## Step 2: Running the code

• Run the code through Eclipse.

**Step 3:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add.

Commit the changes using the following command:

git commit . -m "Changes have been committed."

Push the files to the folder you initially created using the following command:

git push -u origin master