

## Framework Concepts - TestNG API (Continued)

- **@BeforeMethod**
  - Methods annotated with @BeforeMethod annotation will be executed before the @Test annotated methods.
  - Used with the methods having the code, which is required to be executed before executing the code in test methods.
    - Example: **Opening Browser and Application** before actually performing any tests on them.
  - Demonstrate a program which uses @BeforeMethod and a single @Test method - Demonstrate [here](#)
  - Demonstrate a program which uses @BeforeMethod and multiple @Test methods - Demonstrate [here](#)
- **@AfterMethod**
  - Methods annotated with @AfterMethod annotation will be executed after the @Test annotated methods.
  - Used with the methods having the code, which is required to be executed after executing the code in test methods.
    - Example: Closing the Application/Browser after the tests are performed on them.
  - Demonstrate a program which uses @AfterMethod and a single @Test method - Demonstrate [here](#)
  - Demonstrate a program which uses @AfterMethod and multiple @Test methods - Demonstrate [here](#)
- **@BeforeClass**
  - Methods annotated with @BeforeClass annotation will be executed before executing the Class
  - Used with the methods having the code, which is required to be executed before executing the Class code
    - Example: Instead of opening application for each and every test, if we want to open the application only once before all the tests in a Class are executed.
  - Demonstrate a program which uses @BeforeClass along with other annotated methods - Demonstrate [here](#)
- **@AfterClass**
  - Methods annotated with @AfterClass annotation will be executed after executing the Class
  - Used with the methods having the code, which is required to be executed after the executing the Class code
    - Example: Instead of closing application for each and every test, if we want to close the application only once after all the tests inside the Class got executed.
  - Demonstrate a program which uses @AfterTest along with other annotated methods - Demonstrate [here](#)
- **Executing the Java class files in batch using TestNG**
  - Create a Java Project and automatically generate TestNG Class, Package and testng.xml file using Eclipse IDE by selecting src > new > other > TestNG Class
  - Create multiple packages, classes and methods inside the Project
  - Update the auto generated testng.xml file with all the Package and Class details under multiple Tests.
  - Run the **testng.xml** as 'TestNG Suite' and view the execution results.