Life Cycle Methods:

```
package junitTestScripts;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
public class BeforeEachAfterEach {
JavaOperations obj;
       // @BeforeEach is used to signal that the annotated method should be executed before
each @Test
        @BeforeEach
        public void setup()
       {
               System.out.println("Start DB connection");
               obj = new JavaOperations();
       }
        @Test
        public void method1()
       {
               System.out.println("Hello Junit");
       }
        @Test
        public void method2()
       {
               System.out.println("Test code of Java operations class");
```

```
}
                             // @AfterEach : exeucte the method after each test method
                             // @AfterEach is used to signal that the annotated method should be executed after each
@Test
                             @AfterEach
                             public void teardown()
                            {
                                                         System.out.println("Close DB connections");
                            }
}
 eclipse-workspace - ATE-Phase2-JUnit/src/test/java/junitTestScripts/BeforeEachAfterEach.java - Eclipse IDE
 | Package | Julinit X | D | BeforeEachAlterEach.java X | package junitTestScripts; 2@ import org.junit.jupiter.api.AfterEach; |
                                                                                                                                                                                                                                                                                                                                                             - -
                                                                                                                                                                                                                                                                                                     ► All ► Activate.... ②
  Finished after 0.116 seconds
   Runs: 2/2 ☑ Errors: n ☑ Failures: n
                                                                                          // @BeforeEach is used to signal that the annotated method should be executed be
                                                                                          public void setup()
{
                                                                                                   System.out.println("Start DB connection");
                                                                                                                                                                                                                                                                                                                    P □ Iª N N P N S
                                                                                                                                                                                                                                                                                                         junitTestScripts

BeforeEachAfterEach

    △ obj : JavaOperations
    setup() : void
    method1() : void
                                                                                                    System.out.println("Hello Junit");
                                                                                                                                                                                                                                                                                                                     method2(): void
                                                                                                                                                                                                                                                                                                              teardown(): void
                                                国译部
  Failure Trace
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                                                                      <terminated> BeforeEarchAfterEarch [JUnit] C\Users\Kunnu\p2\poo\plugins\org eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (24-Jan-2024, 24-Jan-2024, 24
                                                                    Start DB connection
Hello Junit
Close DB connections
Start DB connection
Test code of Java operations class
Close DB connections
                                                                                                                                 Writable
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                                                                                                      Q Search
                                                                                                                                                                                       1 (0)
2.Assertions:
```

package junitTestScripts;

import org.junit.jupiter.api.Assertions;

import org.junit.jupiter.api.BeforeEach;

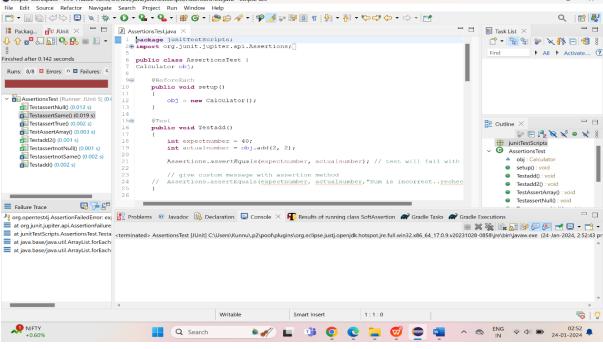
import org.junit.jupiter.api.Test;

```
public class AssertionsTest {
Calculator obj;
       @BeforeEach
       public void setup()
       {
               obj = new Calculator();
       }
       @Test
       public void Testadd()
       {
               int expectnumber = 40;
               int actualnumber = obj.add(2, 2);
               Assertions.assertEquals(expectnumber, actualnumber); // test will fail with
assertion
               // give custom message with assertion method
       //
               Assertions.assertEquals(expectnumber, actualnumber, "Sum is Incorrect..recheck
the code");
       }
       @Test
       public void Testadd2()
       {
               int expectnumber = 40;
               int actualnumber = obj.add(2, 2);
               Assertions.assertNotEquals(expectnumber, actualnumber); // test will pass
       }
       @Test
       public void TestAssertArray()
```

```
{
        Assertions.assertArrayEquals(new int[] {1,2,3}, new int[] {1,2,3});
        Assertions.assertArrayEquals(new int[] {1,2,3}, new int[] {1,2,3,4,5});
}
@Test
public void TestassertNull()
{
        String str1 = null;
        Assertions.assertNull(str1); // string is null, so test will pass
}
@Test
public void TestassertnotNull()
{
        String str1 = "selenium";
        Assertions.assertNotNull(str1); // string is not null, so test will pass
}
@Test
public void TestassertSame()
{
        String str1 = "selenium";
```

```
String str2 = "tool";
        Assertions.assertSame(str1, str2);
}
@Test
public void TestassertnotSame()
{
        String str1 = "selenium";
        String str2 = "selenium";
        Assertions.assertNotSame(str1, str2);
}
@Test
public void TestassertTrue()
{
        int a =20;
        int b = 30;
        Assertions.assertTrue(a<b); // condition is true.. test will pass
        Assertions.assertFalse(a<b); // test will fail as condition is true
        // for the above lines to pass, the condition should return false value
}
```

}



```
3.Disabled Tests:
package junitTestScripts;
import org.junit.jupiter.api.Disabled;
import org.junit.jupiter.api.Test;
@Disabled("Functionality is not working, ignore the test")
public class DisabledAnnotation {
       @Test
       public void method1()
       {
               System.out.println("Hello Junit");
       }
       @Test
       public void method2()
       {
               System.out.println("Hello Junit");
       }
       @Test
       @Disabled // this method will not be exeucted. It is disabled
```

```
public void method3()
           {
                      System.out.println("Hello Junit");
           }
           @Test
           public void method4()
           {
                      System.out.println("Hello Junit");
           }
}
File Edit Source Refactor Navigate Search Project Run Window Help
Packag... gru JUnit X DisabledAnnotation.java X

1 package junitTestScripts;
2 import org.junit.jupiter.api.Disabled;
4 @Disabled("Functionality is not working, ignore the test")
                                                                                                                                      - 0
                                                                                                                ■ Task List ×
                                                                                                                 All Activate....
Finished after 0.09 seconds
                           6 public class DisabledAnnotation {
7⊖ @Test
8 public void method1()
9 {
 Runs: 4/4 (4 s Errors: E Failures:
System.out.println("Hello Junit");
                                 public void method2()
                                     System.out.println("Hello Junit");
                                  (Test @Disabled // this method will not be executed. It is disabled public void method3()
                                                                                                                       SP E PZ X XS O XL 8
                                                                                                                     method1(): void
method2(): void
                                     System.out.println("Hello Junit");
                                                                                                                     method30 : void
                  國泽部
                          📳 Problems @ Javadoc 🖳 Declaration 📮 Console 🗡 👫 Results of running class SoftAssertion 🗬 Gradle Tasks 🗬 Gradle Executions
                          ** Cerminated > DisabledAnnotation [JUnit] C\Users\Kunnu\p2\pooh|plugins\crg.eclipse.justj.openjdk.hotspot.jre.full.win32.x86.64_17.0.9.v20231028-0859.jre\bin\javaw.exe (24-Jan-2024, 2:55-2014).
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4. Assumptions:
package junitTestScripts;
import org.junit.jupiter.api.Assumptions;
import org.junit.jupiter.api.RepeatedTest;
import org.junit.jupiter.api.Test;
public class AssumptionDemo {
           @RepeatedTest(3)
```

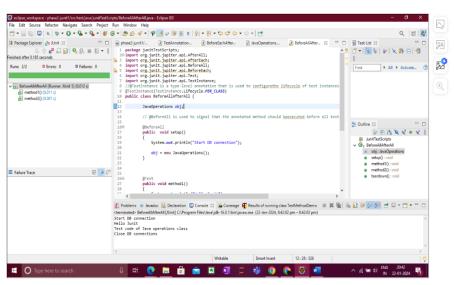
@Test

```
public void AssumptionsDemo()
            {
                        // Condition Assumed
                        boolean isDBServerUp= true;
                        Assumptions.assumeTrue(isDBServerUp);
                        // the test case will aborted as the assumption is not true
                        System.out.println("execute the tests");
            }
            @Test
            public void AssumptionsDemo2()
            {
                        // Condition Assumed
                        boolean isDBServerUp= false;
                        Assumptions.assumeFalse(isDBServerUp);
                        // the test case will aborted as the assumption is not true
                        System.out.println("Dont execute test");
            }
}
eclipse-workspace - ATE-Phase2-JUnit/src/test/java/junitTestScripts/AssumptionDemo.java - Eclipse IDE
 File Edit Source Refactor Navigate Search Project Run Window Help
Q 🖺 🐉
■ Task List ×
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                                                                                                                            ► All ► Activate.... ②
                               5
6 public class AssumptionDemo {
7⊖ @RepeatedTest(3)
Finished after 0.103 seconds
 Runs: 5/5 Errors: n E Failures: n
                                    public void AssumptionsDemo()
{
                                    // Condition Assumed
boolean isDBServerUp= true;
                                       Assumptions.assumeTrue(isDBServerUp);
// the test case will aborted as the assumption is not true
   AssumptionsDemo() (0.002 s)
repetition 1 of 3 (0.002 s)
repetition 2 of 3 (0.001 s)
repetition 3 of 3 (0.001 s)
                                         System.out.println("execute the tests");
                                                                                                                              junitTestScripts

AssumptionDemo
                                     @Test
public void AssumptionsDemo2()
{
                                                                                                                                AssumptionsDemo(): voidAssumptionsDemo2(): void
                                          // Condition Assumed boolean isDBServerUp= false;
                    國 译 #
 Failure Trace
                             📳 Problems 🍭 Javadoc 🖳 Declaration 📮 Console 🗡 📭 Results of running class SoftAssertion 🐙 Gradle Tasks 🐙 Gradle Execution
                             -terminated> AssumptionDemo [JUnit] C\Users\Kunnu\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86 64 17.09.v20231028 0858/jre\bin\avaw.exe (24 Jan-2024, 3:06.5 Jan 24, 2024 3:06.55 PM org.junit.jupiter.engine.discovery.MethodSelectorResolver resolven
                             Jan 24, 2024 3:06
WARNING: Possible
Dont execute test
execute the tests
execute the tests
execute the tests
execute the tests
                                                os em org.junit.jupiter.engine.aiscovery.methodselectorkesolver resolve
configuration error: method [public void junitTestScripts.AssumptionDemo.AssumptionsDemo()] resulted in
                                                                                                                                                  ™ : ?
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```

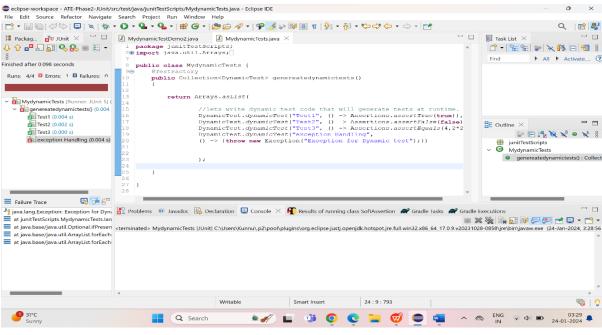
5.Test Interfaces:

```
package junitTestScripts;
import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
import org.junit.jupiter.api.TestInstance;
//@TestInstance is a type-level annotation that is used to configurethe lifecycle of test instances for
the annotatedtest class or test interface.
@TestInstance(TestInstance.Lifecycle.PER CLASS)
public class BeforeAllAfterAll {
JavaOperations obj;
// @BeforeAll is used to signal that the annotated method should be executed before
all tests in the current test class
@BeforeAll
public void setup()
System.out.println("Start DB connection");
obj = new JavaOperations();
public void method1()
System.out.println("Hello Junit");
@Test
public void method2()
System. out. println("Test code of Java operations class");
}//
@AfterAll is used to signal that the annotated method should be executed after all
tests in the current test class.
@AfterAll
public void teardown()
System.out.println("Close DB connections");
}
```



```
6.Dynamic Tests:
```

```
package junitTestScripts;
import java.util.Arrays;
import java.util.Collection;
import org.junit.jupiter.api.Assertions;
import org.junit.jupiter.api.DynamicTest;
import org.junit.jupiter.api.TestFactory;
public class MydynamicTests {
        @TestFactory
        public Collection<DynamicTest> genereatedynamictests()
               return Arrays.asList(
                               //lets write dynamic test code that will generate tests at runtime.
                                DynamicTest.dynamicTest("Test1", () ->
Assertions.assertTrue(true)),
                                DynamicTest.dynamicTest("Test2", () ->
Assertions.assertFalse(false)),
                                DynamicTest.dynamicTest("Test3", () ->
Assertions.assertEquals(4,2*2)),
                                DynamicTest.dynamicTest("exception Handling",
                                () -> {throw new Exception("Exception for Dynamic test");
}
                               );
       }
}
```



```
7.Parameterized Test:
package junitTestScripts;
import java.util.stream.Stream;
import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.MethodSource;
public class ParameterizedTestMethodSource {
       public static Stream<String> stringParamters()
       {
               return Stream.of("Monday","Tuesday","Wednesday");
       }
       public static Stream<Integer> intParamters()
       {
```

@ParameterizedTest(name = "Method value {arguments}")

return Stream.of(100,200,300);

@MethodSource("stringParamters")

}

```
public void getdatafromMethods(String input)
             {
                           System.out.println("The value from String method is: " + input);
             //
                           System.out.println("The value from integer method is : " + input1);
             }
              @ParameterizedTest(name = "Method value {arguments}")
             @MethodSource("intParamters")
             public void getdatafromIntMethods(int input)
             {
                           System.out.println("The value from Integer method is: " + input);
             }
eclipse-workspace - ATE-Phase2-JUnit/src/test/java/junitTestScripts/ParameterizedTestMethodSource.java - Eclipse IDE
Q : # #
ParameterizedTestMethodSourcejava ×

ParameterizedTestMethodSourcejava ×

ParameterizedTestMethodSourcejava ×

package junitTestSoripts;

minort java.util.stream.Stream;
                                                                                                                                             ■ Task List ×
                                                                                                                                              Finished after 0.155 seconds
                                                                                                                                                           All Activate...
 Runs: 6/6 Errors: 0 E Failures: 0
                                                    return Stream.of("Monday", "Tuesday", "Wednesday");

    ✓ ParameterizedTestMethodSource [Runner]
    getdatafromMethods(String) (0.027 s
Method value Monday (0.027 s)
                                       public static Stream<Integer> intParamters()

{
    return Stream.of(100,200,300);
       Method value Tuesday (0.000 s)
                                             }
                                                                                                                                              ₽ Outline ×

    ✓ □ getdatafromIntMethods(int) (0.003 s)
                                              @ParameterizedTest(name = "Method value {arguments}")
                                                                                                                                                      @MethodSource("stringFaramters")
public void getdatafromMethods(String input)
{
       Method value 100 (0.003 s)
Method value 200 (0.001 s)
                                                                                                                                                 junitTestScripts

ParameterizedT
                                                                                                                                                     ParameterizedTestMethodSource
       Method value 300 (0.001 s)

    S stringParamters(): Stream<String</li>
    intParamters(): Stream<Integer:</li>

                                                                                                                                                    getdatafromMethods(String) : vo
                                                @ParameterizedTest(name = "Method value {arguments}")
@MethodSource("intParameters")
                                                                                                                                                    getdatafromIntMethods(int) : vo
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                                      🖳 Problems @ Javadoc 🚇 Declaration 🖳 Console 🗶 Results of running class SoftAssertion 🗬 Gradle Tasks 🗬 Gradle Executions
                                                                                                                                       <terminated>ParameterizedTestMethodSource [JUnit] C:\Users\Kunnu\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe
                                      The value from String method is: Monday
The value from String method is: Tuesday
The value from String method is: Wednesday
The value from Integer method is: 100
The value from Integer method is: 200
The value from Integer method is: 300
                                                                                                                                                                       6
  GBP/INR
```

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8.Argument Source:

}

package junitTestScripts;

import org.junit.jupiter.api.Assertions;

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```
import org.junit.jupiter.params.converter.ArgumentConversionException;
import org.junit.jupiter.params.converter.SimpleArgumentConverter;
public class ToStringArgumentConverter extends SimpleArgumentConverter {
       @Override
       protected Object convert(Object source, Class<?> targetType) throws
ArgumentConversionException {
               Assertions.assertEquals(String.class, targetType, "Can only convert to String");
               return String.valueOf(source);
       }
}
Implicit Argument:
package junitTestScripts;
import java.time.temporal.ChronoUnit;
import org.junit.jupiter.api.Assertions;
import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.ValueSource;
public class ArgumentConversionImplicit {
       @ParameterizedTest
       @ValueSource(strings = "SECONDS")
       public void testImplicitargumentConversion(ChronoUnit chronounit)
       {
               System.out.println(chronounit.name());
               Assertions.assertNotNull(chronounit.name());
```

```
}
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Package Explo...
                                                                                                ■ Task List ×
                                              ☑ ArgumentConversionImplicit.j... × ☑ ArgumentConversionexplicitS.
     package junitTestScripts;

2 → 8 ■ 1 package junitTestScripts;

2 ⊕ import java.time.temporal.ChronoUnit;
                                                                                                Finished after 0.135 seconds
                                                                                                         ► All ► Activate... ②
                            Runs: 1/1 
☐ Errors: 0 ☐ Failures: 0
 ArgumentConversionImplicit [Runner: JUr
   testImplicitargumentConversion(Chron
                                    System.out.println(chronounit.name());
Assertions.assertNotNull(chronounit.name());
     # [1] SECONDS (0.033 s)
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Failure Trace
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10.Argument Conversion:
package junitTestScripts;
import java.util.concurrent.TimeUnit;
```

import org.junit.jupiter.api.Assertions;

}

import org.junit.jupiter.params.ParameterizedTest;

import org.junit.jupiter.params.converter.ConvertWith;

import org.junit.jupiter.params.provider.EnumSource;

public class ArgumentConversionexplicitSource {

@ParameterizedTest

@EnumSource(TimeUnit.class)

public void testcaseforExplicit(

@ConvertWith(ToStringArgumentConverter.class) String argument

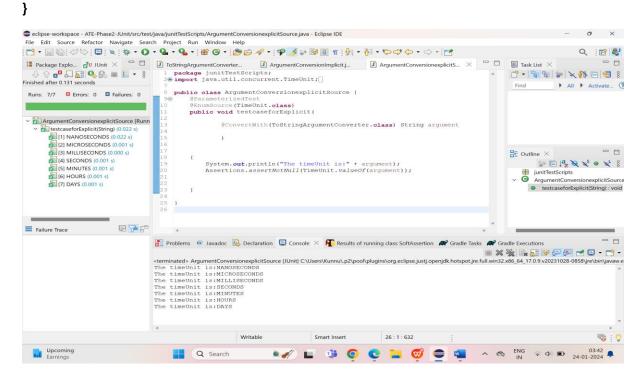
)

{

System.out.println("The timeUnit is:" + argument);

Assertions.assertNotNull(TimeUnit.valueOf(argument));

}



11.Extension Points:

package junitTestScripts;

import org.junit.jupiter.api.Test;

import org.junit.jupiter.api.condition.EnabledForJreRange;

import org.junit.jupiter.api.condition.EnabledIfEnvironmentVariable;

import org.junit.jupiter.api.condition.EnabledIfSystemProperty;

import org.junit.jupiter.api.condition.EnabledOnJre;

import org.junit.jupiter.api.condition.EnabledOnOs;

import org.junit.jupiter.api.condition.JRE;

import org.junit.jupiter.api.condition.OS;

```
public class ExtensionsDemoCondition {
        @Test
        @EnabledOnOs(OS.MAC)
        // condition is If the OS is Mac -> run the test else ignore/disable the test
        public void testConditionOS()
       {
               System.out.println("OS is matching and test is exeucted");
       }
        @Test
        @EnabledOnJre(JRE.JAVA_14)
        // condition is If the java version on laptop is 14 -> run the test else ignore/disable the test
        public void testConditionJRE()
       {
               System.out.println("Java version is matching and test is exeucted");
       }
        @Test
        @EnabledForJreRange(min = JRE.JAVA_10, max= JRE.JAVA_17)
        // condition is If the java version on laptop is in between 10 to 17 -> run the test else
ignore/disable the test
        public void testConditionJRErange()
       {
               System.out.println("Java version is matching and test is exeucted");
       }
@Test
@EnabledIfSystemProperty(named="java.vm.vendor", matches="Oracle.*")
// condition is If the java version is provided by oracle-> run the test else ignore/disable the test
```

```
public void testConditionSystemProperty()
{
                            System.out.println("Java version is installed by oracle and test is exeucted");
}
 @Test
     @EnabledIfEnvironmentVariable(named = "myENVOS", matches="Linux") //
    public void testConditionEnvVariables() {
    System.out.println(" Envirnoment varibale is linux and test is exeucted");
   }
   File Edit Source Refactor Navigate Search Project Run Window Help
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                                                                                                                                                                                                                                                                                                                                                - -
                                                                                                                                                                                                                                                                                        ■ Task List ×
                                                                                                                                                                                                                                                                                          All Activate...
                                                                                11 public class ExtensionsDemoCondition {
    Runs: 5/5 (4 skippe ☐ Errors: (☐ Failures:
                                                                                                  // condition is If the OS is Mac -> run the test else ignore/disable the tes public void testConditionOS()
      ExtensionsDemoCondition [Runner: JUnit
            testConditionJRErange() (0.013 s)
                                                                                                       System.out.println("OS is matching and test is exeucted");
             testConditionJRE() (0.000 s)
            testConditionNet() (0.000 s)
testConditionOs() (0.000 s)
testConditionOs() (0.000 s)
testConditionEnvVariables() (0.000 s)
                                                                                                                                                                                                                                                                                         ₽ Outline ×
                                                                                                                                                                                                                                                                                                        So E La N N O Nº 8
                                                                                                                                                                                                                                                                                                      junitTestScripts
                                                                                                    / condition is If the java ve:
ublic void testConditionJRE()
                                                                                                                                                                                                                                                                                                       ExtensionsDemoCondition

    testConditionOS() : void
    testConditionJRE() : void
    testConditionJRErange() : void

                                                                                                          System.out.println("Java version is matching and test is exeucted");
                                                                                                @Test
@EnabledForJreRange(min = JRE.JAVA_10, max= JRE.JAVA_17)
// condition is If the java version on laptop is in between 10 to 17

    testConditionSystemProperty() :
    testConditionEnvVariables() : voi

  Failure Trace
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                                                                            <terminated> ExtensionsDemoCondition | JUnit| C\Users\Kunnu\,p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86.64.17.0.9.v20231028-0858\jre\bin\javaw.exe (24-).
Java version is matching and test is exempted.
                                                                                                                                                                                                                                                                                                                                            Q Search
                                                                                                                                                                                i
```

12.Meta Annotations:

```
package junitTestScripts;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import org.junit.jupiter.api.Tag;
import org.junit.jupiter.api.Test;
```

@Target({ElementType.TYPE, ElementType.METHOD})

```
@Retention(RetentionPolicy.RUNTIME)
       @Tag("dev")
       @Test
       public @interface MetaAnnotation {
       }
package junitTestScripts;
import java.lang.annotation.Annotation;
public class CustomAnnotationDemo implements MetaAnnotation{
       @Override
       public Class<? extends Annotation> annotationType() {
               // TODO Auto-generated method stub
              return null;
       }
       @MetaAnnotation
       public void testdemo()
       System.out.println("My annotation testing");
       }
}
eclipse-workspace - ATE-Phase2-JUnit/src/test/java/junitTestScripts/CustomAnnotationDemo.java - Eclipse IDE
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                                                                         ↑ B package junitTestScripts;
Finished after 0.085 seconds
All Activate...
                          public Class<? extends Annotation> annotationType() {
 > 🛅 CustomAnnotationDemo [Runner: JUnit 5 🙋
                            return null;
                          public void testdemo()
                          System.out.println("My annotation testing");
                                                                           ₽ Outline ×
```

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cterminated > CustomAnnotationDemo [JUnit] C\Users\Kunnu\.p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86.64_17.0.9 v20231028-0858\jre\bin\javaw.exe (24-Jar My annotation testing

15:6:356

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Failure Trace

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annotationType(): Class<? extertestdemo(): void

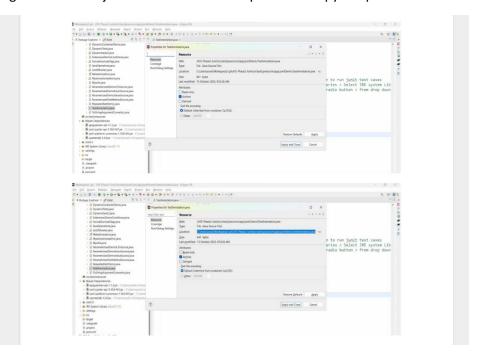
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junitTestScripts

CustomAnnotationDemo

13. Running Tests from Console:

Right click on the java class file→Go to Properties → copy the path of the file location



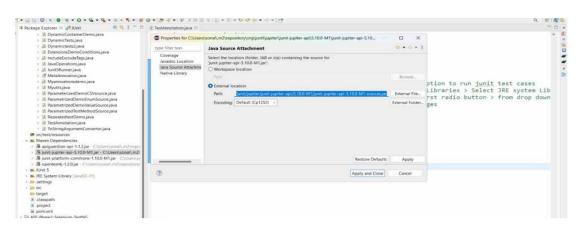
Open the command prompt in your laptop and copy the path but remove the filename at the end Like this cd C:\Users\sonal\Workspace2-git\ATE-Phase2-Junit\src\test\java\com\app\junitDemo



We also need the path of Junit Jar file on your project. We need to get that path from eclipse project Right click on mavane depency folder > right click on junit jar and go to properties Go to java source attachment and copt the path as show below For me it is:

C:/Users/sonal/.m2/repository/org/junit/jupiter/junit-jupiter-api/5.10.0-M1/junit-jupiter-api-5.10.0-M1/junit-api-5.10.0

sources.jar



Execute below command on your command line now:

javac -cp C:/Users/sonal/.m2/repository/org/junit/jupiter/junit-jupiter-api/5.10.0-M1/junit-jupiter-api-

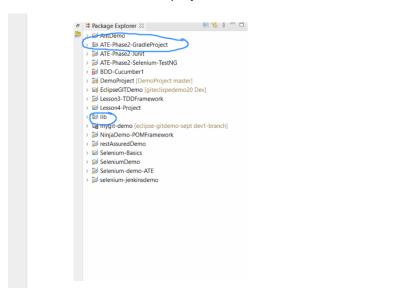
5.10.0-M1-sources.jar;. TestAnnotation.java

14. Running Tests From Gradle:

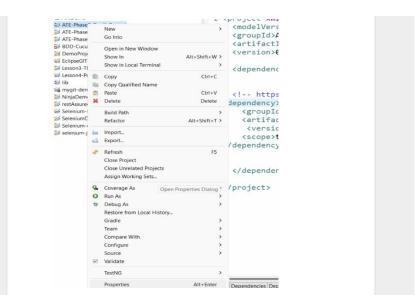
Create a Gradle project

Press Next button

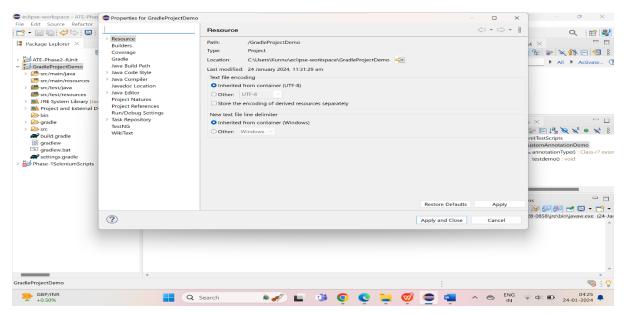
Press Next button and give a name to the project and click on Finish After Finish, it will create 2 projects



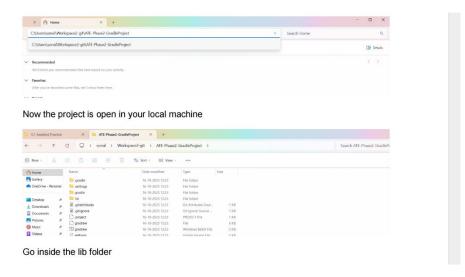
We have to fix the issue of lib folder should be inside the main gradle project So go to properties of your gradle project and get the path of the project created on your local Machine

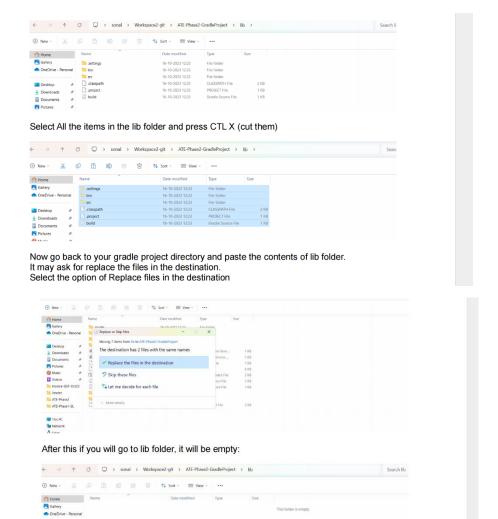


Copy the location of project on your local machine:

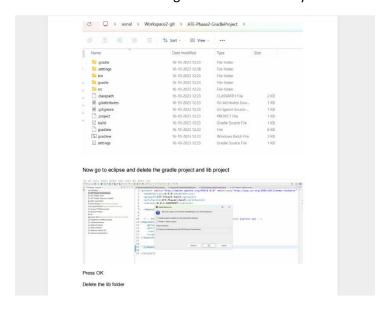


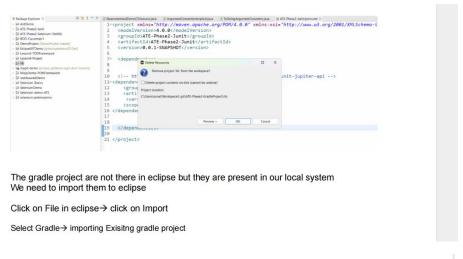
Open the folder in your local machine by pasting the path of workspace:

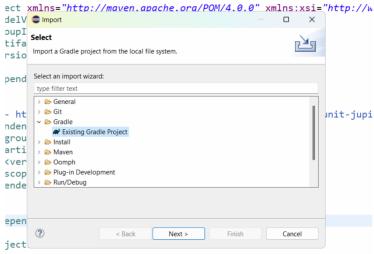




Delete the Lib folder from gradle folder directory

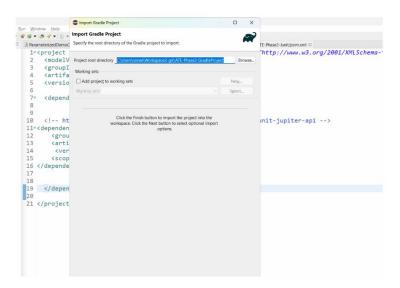






Press next

Click on browse button and go to the workspace path >> go to your project folder You will have the path of your project populated automatically



Press Next and Again press next and click on finish

15. Running Tests From Maven:

```
package junitTestScripts;
import org.junit.jupiter.api.RepetitionInfo;
import org.junit.jupiter.api.TestInfo;
public class DependencyInjection {
                          @org.junit.jupiter.api.RepeatedTest(5)
                          public void repeatedtestdemo(TestInfo testinfo, RepetitionInfo repInfo)
                          {
                                                   System.out.println(testinfo.getDisplayName() + ""+ repInfo.getCurrentRepetition() );
                         }
}
 eclipse-workspace - ATE-Phase2-JUnit/src/test/java/junitTestScripts/DependencyInjection.java - Eclipse IDE
  File Edit Source Refactor Navigate Search Project Run Window Help
 :四思
  Packag... Junit × Dependencylnjection.java ×
                                                                                                                                                                                                                                                                                                                    - -
                                                                                                                                                                                                                                                                  ■ Task List ×
                                                                 | package junitTentScripts;

2⊖ import org.junit.jupiter.api.RepetitionInfo;

3 import org.junit.jupiter.api.TestInfo;
  * BENX NE 3 8
                                                                                                                                                                                                                                                                                          ► All ► Activate.... ②
                                                                      Runs: 5/5 Errors: n 🛭 Failures: n
   P Dependencylnjection [Runner: JUn
                                                                                        System.out.println(testinfo.getDisplayName() + ""+ repInfo.getCurrentRepetit
              repetition 1 of 5 (0.023 s)
                                                                                                                                                                                                                                                                                                                     - -
              repetition 3 of 5 (0.001 s)
                                                                                                                                                                                                                                                                               PERX NO X'S
              repetition 5 of 5 (0.001 s)
                                                                                                                                                                                                                                                                    O Dependencylnjection
                                           2 7 6°
  Failure Trace
                                                              🖺 Problems : @ Javadoc 😡 Declaration 💂 Console 🗵 💦 Results of running class SoftAssertion : 🗬 Gradle Tasks : 🗬 Gradle Executions
                                                                                                                                                                                                                                                      -terminated> DependencyInjection [JUnit] C\Users\Kunnu\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (24-Jan-2024, 12-Jan-2024, 12-J
                                                             repetition 1 of 51
repetition 2 of 52
repetition 3 of 53
repetition 4 of 54
repetition 5 of 55
                                                                                                                                                                                                                                                                                                                 To 10
                                                                                             Q Search
```

16.Include/Exclude Tags:

package junitTestScripts;

import org.junit.jupiter.api.Tag;

import org.junit.jupiter.api.Test;

```
import org.junit.platform.suite.api.ExcludeTags;
import org.junit.runner.RunWith;
import org.junit.runners.Suite;
@RunWith(Suite.class)
public class IncludeExcludeTags {
        @Test
        @Tag("feature1")
        public void feature1Test1()
       {
               System.out.println("test 1 for feature1");
       }
        @Test
        @Tag("feature1")
        public void feature1Test2()
       {
               System.out.println("test 2 for feature1");
       }
        @Test
        @Tag("feature1")
        public void feature1Test3()
       {
               System.out.println("test 3 for feature1");
       }
        @Test
        @Tag("feature1")
        public void feature1Test4()
       {
```

```
System.out.println("test 4 for feature1");
        }
        @Test
        @Tag("feature2")
        public void feature2Test1()
        {
                System.out.println("test 1 for feature2");
        }
        @Test
        @Tag("feature2")
        public void feature2Test2()
        {
                System.out.println("test 2 for feature2");
        }
        @Test
        @Tag("feature2")
        public void feature2Test3()
        {
                System.out.println("test 3 for feature2");
        }
}
```

