the execution procedure of methods in JUnit, which defines the order of the methods called. Discussed below is the execution procedure of the JUnit test API methods with example.

Create a java class file named ExecutionProcedureJunit.java in C:\>JUNIT_WORKSPACE to test annotation.

```
import org.junit.After;

import org.junit.AfterClass;


import org.junit.Before;

import org.junit.BeforeClass;


import org.junit.Ignore;

import org.junit.Test;


public class ExecutionProcedureJunit {


   //execute only once, in the starting

   @BeforeClass

   public static void beforeClass() {

      System.out.println("in before class");

   }


   //execute only once, in the end

   @AfterClass

   public static void  afterClass() {

      System.out.println("in after class");

   }


   //execute for each test, before executing test

   @Before
   public void before() {
      System.out.println("in before");
   }

   //execute for each test, after executing test
   @After
   public void after() {
      System.out.println("in after");
   }

   //test case 1
   @Test
   public void testCase1() {
      System.out.println("in test case 1");
   }

   //test case 2
   @Test
   public void testCase2() {
      System.out.println("in test case 2");
   }
}
```

Next, create a java class file named **TestRunner.java** in C:\>JUNIT_WORKSPACE to execute annotations.

```
import org.junit.runner.JUnitCore;
import org.junit.runner.Result;
import org.junit.runner.notification.Failure;

public class TestRunner {
   public static void main(String[] args) {
      Result result = JUnitCore.runClasses(ExecutionProcedureJunit.class);


      for (Failure failure : result.getFailures()) {

         System.out.println(failure.toString());

      }


      System.out.println(result.wasSuccessful());

   }

}
```

Compile the Test case and Test Runner classes using javac.

```
C:\JUNIT_WORKSPACE>javac ExecutionProcedureJunit.java TestRunner.java
```

Now run the Test Runner, which will run the test case defined in the provided Test Case class.

```
C:\JUNIT_WORKSPACE>java TestRunner
```

Verify the output.

```
in before class
in before
in test case 1
in after
in before
in test case 2
in after
in after class
```

See the above output. The execution procedure is as follows −

- First of all, the beforeClass() method executes only once.
- The afterClass() method executes only once.
- The before() method executes for each test case, but before executing the test case.
- The after() method executes for each test case, but after the execution of test case.
- In between before() and after(), each test case executes.