**JUNIT 5**

Learn Java Unit Testing with JUnit 5 in 20 Steps -Whole Practice Assignment

1. Create a simple maven project with group id com.in28mins & write a Junit test for the truncateAInFirst2Positions method by passing a string & add testcase & assertEquals run the test without failure & run successful Junit
2. 1. Write a test method for testing two conditions CDEF=>CDEF CDAA=>CDAA string input & write a unit test.

2. Write a Junit test to test the first and last two characters are the same & return true if it is the same or else false using the assert false & assert True method.

1. Write Junit test code using @BeforeEach and @AfterEach annotations for sorting an array using Junit 5
2. Write a Junit 5 test code with @BeforeAll and @AfterAll along with assertNull and assertTrue methods for string comparison.
3. Define a test to compare arrays, import the array class & check the functionality of shorting use assertArrayEquals method & add null pointer exception.3. Check the sorted array is performing well & alert the problem if it is not performing & run with parameterized test & organize them.
4. Parameterized with good performance unit test code.
5. Write a test suite in Junit 5 to test multiple test classes multiple times with performance along with database connectivity for words comparison in chronological order using legacy class Dictionary along with exception handling and Junit Patterns.
6. Write a Junit test code with database connection including exception handling along with @Before each and @After each with grouping test using @Nested for array element comparison where array elements are stored in Database.
7. Write a test unit code in Junit 5 along with @TestSuite, database connectivity, @RepeatedTest, @DisplayName, performance, @Disabled, xunitpatterns, @ParameterizedTest, @CsvSourceand Collections for comparison of sorted array elements.
8. Mockito

Create a simple maven project with group id com.in28mins & write a Junit test for the truncateAInFirst2Positions method by passing a string & add test case & assertEquals run the test without failure & run successful Junit. Run a test method that includes before, after, before class & after class methods. Write a mocks example ToDo service management system & create a unit test using a stub to implement the ToDo service. Write a test mock list get using BDD in a Given, When & Then style add a delete Todo method in the service interface. Add the ham crest library dependency to porm.xml & use the assert that method & do ham crest matchers test. Show how to mock the constructor using the combination of power mock & mockito.

1. Mockito

Create a sample example of mocks to interact with a Todo service Management application system & provide filtering around spring related todo’s.

Create a unit test using a stub to implement the ToDo service & test the TodoBusinessImpl using a service stub.

Add the static import create a mock method inside the mockito class & call when method with return value & test todobusiness service scenario.

Input the List in an interface & create a mocks for it returns multiple values from single method use argument matches & stub method & throws a runtime exception.

Write a test mock list get using BDD in a given mock is returning in 28 minutes, when get the first element & then asserting the first element matches the expectation & verify calls on a mock add a delete Todo method in the serviceinterfac

1. Mockito

Show how to capture an argument that is passed to a mock.

Add the ham crest library dependency to porm.xml & use the assertThat() method & do c hamcrest matchers test.

1. Write a mockito unit test in a real-world project example using complex test methods in business scenarios.2. Create a simple Spy test with mockito & override the specific methods in spy.