

## Apex Testing

Apex Testing means testing/checking the code of Apex class and triggers to ensure that they are working as expected.

Benefits of testing

- 1) Testing will improve the code quality.
- 2) It will fulfill the requirements of deployment.

Every testing operation is dummy, not stored in the database.

## Code Coverage

**Classes**→75%

**Triggers**→1%

## Classes

Public class new1

{

Public static void add()

{

//code

}

}

## Test This class

**@istest**

Public class testingclass

{

@istest static void newmethod

{

new1.add();

}

}

Testing ensure value passed by user will be as expected and gives you output as True or false.

## System.assertequals

Is an inbuilt test to check the test value that value is positive or value is negative or value is having some error.

If any of the sample data value or testfactory value is working then the value in test work with the system assert as true or false.

System.assertequals(expectedvalue,actualvalue)

Actuvalue→Pass

Expected Value→Expecting

sub(x-y) x=20,y=5

Expected value→15

**Testvisible is used whenever the method is Private.**

**Class**

```
Public class new1
{
    @testvisible
    Private static void add()
    {
        //code
    }

}
```

### **Test This class**

```
@istest
Public class testingclass
{

    @istest static void newmethod
    {
        new1.add();
    }

}
```

**If users want to access organization data for testing then users have to set this attribute before the class.**

**@istest(seealldata=true)**

Scenario1: To check value through fahrenheit

Scenario2: To check for even number

Scenario3: To check for Leap Year

Scenario4: To check for Update.phone=:pin[method parameter].Class update phone[where name='qrsystem'] method [parameter] with the help of testing.

Scenario5: Trigger for duplicacy of account name[scenario5].

→First without checking with Duplicacy

→Second with Duplicacy

Scenario6: Check for account phone number updated to contact's phone number.[Using Trigger]

**Task: Check for the protected method[@testvisible] access modifier.**

**Types of data value:**

1)Actual

2)Sample Data→includes many records

**Test Data Factory: is used to create sample data for testing in a test class.**

Google.com→Salesforce Trial account

<https://www.salesforce.com/eu/form/signup/freetrial-sales-pe/>

Class{

100 dml statement

```
system.debug(limits.getdmlstatements());
```

2 insert

1 update→3

```
system. debug(limits.getlimitdmlstatement()); //150
```

```
Test.starttTest();
```

```
classdemo();
```

```
test.stoptrst();
```

Dml statements: 150

```
Test.stoptest();
```