

APEX TESTING

1. Get Started with Apex Unit Tests

Challenge

@isTest

```
private class TestVerifyDate
```

```
{
```

```
    @isTest static void testOldDate()
```

```
    {
```

```
        Date dt1 = system.today();
```

```
        Date dt2 = system.today() - 10;
```

```
        Date dt = VerifyDate.CheckDates(dt1,dt2);
```

```
        System.assertEquals(date.newInstance(2022, 5, 31), dt);
```

```
    }
```

```
    @isTest static void testDateWithin30Days()
```

```
    {
```

```
        Date dt1 = system.today();
```

```
        Date dt2 = system.today() + 20;
```

```
        Date dt = VerifyDate.CheckDates(dt1,dt2);
```

```
        System.assertEquals(dt2, dt);
```

```
    }
```

```
    @isTest static void testDateAbove30Days()
```

```
    {
```

```
        Date dt1 = system.today();
```

```
        Date dt2 = system.today() + 35;
```

```
        Date dt = VerifyDate.CheckDates(dt1,dt2);
```

```
        System.assertEquals(date.newInstance(2022, 5, 31), dt);
```

```
    }
```

```
}
```

2. Test Apex Triggers

Challenge

@isTest

```
public class TestRestrictContactByName
```

```
{
    @isTest static void testInvalidLastName()
    {
        Contact c = new Contact(FirstName = 'Sreelal', LastName='INVALIDNAME');
        Boolean isSuccess = true;
        try
        {
            Test.startTest();
            insert c;
            Test.stopTest();
        }
        catch(Exception e)
        {
            isSuccess = false;
        }
        System.assertEquals(true,isSuccess);
    }
}
```

3. Create Test Data for Apex Tests

Challenge

```
public class RandomContactFactory
{
    public static List<Contact> generateRandomContacts(Integer n,String lastName)
    {
        List<Contact> contactList= new List<Contact>();
        for(Integer i=0; i<n; i++)
        {
            Contact c=new Contact(FirstName='Test'+i,LastName=lastName);
            contactList.add(c);
        }
        return contactList;
    }
}
```