Apex Triggers

1.Get Started with Apex Triggers

```
triggerAccountAddressTrigger onAccount(before insert,before update)
List acclst=new List();
for(account a:trigger.new)
if(a.Match_Billing_Address__c==true && a.BillingPostalCode!=null)
a.ShippingPostalCode=a.BillingPostalCode;
}
}
2. Bulk Apex Triggers
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update)
{
  List<Task> tasklist = new List<Task>();
  for(Opportunity opp : Trigger.New){
    if(opp.StageName == 'Closed Won'){
      tasklist.add(new Task(Subject = 'Follow Up Test Task', WhatId =
opp.ld));
    }
  if(tasklist.size()>0){
    insert tasklist;
```

```
}
```

Apex Testing

1. Get Started with Apex Unit Tests

```
VerifyDate class:
public class VerifyDate {
     //method to handle potential checks against two dates
      public static Date CheckDates(Date date1, Date date2) {
           //if date2 is within the next 30 days of date1, use date2.
Otherwise use the end of the month
           if(DateWithin30Days(date1,date2)) {
                 return date2:
           } else {
                 return SetEndOfMonthDate(date1);
           }
     }
      //method to check if date2 is within the next 30 days of date1
      private static Boolean DateWithin30Days(Date date1, Date date2) {
           //check for date2 being in the past
      if( date2 < date1) { return false; }</pre>
     //check that date2 is within (>=) 30 days of date1
      Date date30Days = date1.addDays(30); //create a date 30 days away
from date1
```

```
if( date2 >= date30Days ) { return false; }
           else { return true; }
     }
     //method to return the end of the month of a given date
     private static Date SetEndOfMonthDate(Date date1) {
           Integer totalDays = Date.daysInMonth(date1.year(),
date1.month());
           Date lastDay = Date.newInstance(date1.year(), date1.month(),
totalDays);
           return lastDay;
     }
TestVerifyDate:
@isTest
public class TestVerifyDate
  static testMethod void testMethod1()
    Date d = VerifyDate.CheckDates(System.today(),System.today()+1);
    Date d1 = VerifyDate.CheckDates(System.today(),System.today()+60);
 }
}
2. Test Apex Triggers
RestrictContactByName:
trigger RestrictContactByName on Contact (before insert, before update) {
     //check contacts prior to insert or update for invalid data
     For (Contact c : Trigger.New) {
```

```
if(c.LastName == 'INVALIDNAME') {      //invalidname is invalid
                 c.AddError('The Last Name "'+c.LastName+" is not
allowed for DML');
     }
}
<u>TestRestrictContactByName</u>:
@isTest
public class TestRestrictContactByName {
  @isTest
  public static void testContact(){
    Contact ct = new Contact();
    ct.LastName = 'INVALIDNAME';
    Database.SaveResult res = Database.insert(ct,false);
    System.assertEquals('The Last Name "INVALIDNAME" is not allowed
for DML',res.getErrors()[0].getMessage());
  }
}
3.Create Test Data for Apex Tests
RandomContactFactory class:
public class RandomContactFactory {
  public static List<Contact> generateRandomContacts(Integer nument,
string lastname){
    List<Contact> contacts = new List<Contact>();
```

```
for(Integer i=0;i<numcnt;i++){
        Contact cnt = new Contact(FirstName = 'Test'+i, LastName = lastname);
        contacts.add(cnt);
    }
    return contacts;
}</pre>
```

Asynchronous Apex

1.Use Future Methods:

AccountProcessor Class:

```
public class AccountProcessor {
    @future
    public static void countContacts(List<Id> accountIds){
        List<Account> accounts = [Select Id, Name from Account Where Id IN:
        accountIds];
        List<Account> updatedAccounts = new List<Account>();
        for(Account account: accounts){
              account.Number_of_Contacts__c = [Select count() from Contact
Where AccountId =: account.Id];
        System.debug('No Of Contacts = ' +
        account.Number_of_Contacts__c);
              updatedAccounts.add(account);
        }
        update updatedAccounts;
    }
}
```

AccountProcessorTest:

```
@isTest
public class AccountProcessorTest {
  @isTest
  public static void testNoOfContacts(){
    Account a = new Account();
    a.Name = 'Test Account';
    Insert a;
    Contact c = new Contact();
    c.FirstName = 'Bob';
    c.LastName = 'Willie';
    c.AccountId = a.Id;
    Contact c2 = new Contact();
    c2.FirstName = 'Tom';
    c2.LastName = 'Cruise';
    c2.AccountId = a.Id;
    List<Id> acctIds = new List<Id>();
    acctlds.add(a.ld);
    Test.startTest();
    AccountProcessor.countContacts(acctIds);
    Test.stopTest();
  }
}
```

2.Use Batch Apex

```
LeadProcessor Class:
public class LeadProcessor implements Database.Batchable<sObject> {
  public Database.QueryLocator start(Database.BatchableContext bc) {
    // collect the batches of records or objects to be passed to execute
     return Database.getQueryLocator([Select LeadSource From Lead]);
  }
public void execute(Database.BatchableContext bc, List<Lead> leads){
    // process each batch of records
      for (Lead Lead : leads) {
        lead.LeadSource = 'Dreamforce';
    update leads;
  public void finish(Database.BatchableContext bc){
LeadProcessor Test:
@isTest
public class LeadProcessorTest {
    @testSetup
  static void setup() {
    List<Lead> leads = new List<Lead>();
    for(Integer counter=0 ;counter <200;counter++){
      Lead lead = new Lead();
      lead.FirstName ='FirstName';
```

lead.LastName ='LastName'+counter:

```
lead.Company ='demo'+counter;
      leads.add(lead);
    insert leads;
  }
  @isTest static void test() {
    Test.startTest();
    LeadProcessor leadProcessor = new LeadProcessor();
    Id batchId = Database.executeBatch(leadProcessor);
    Test.stopTest();
  }
3.Control Processes with Queueable Apex
AddPrimaryContact Class:
public class AddPrimaryContact implements Queueable
  private Contact c;
  private String state;
  public AddPrimaryContact(Contact c, String state)
  {
    this.c = c;
    this.state = state;
  }
  public void execute(QueueableContext context)
  {
    List<Account> ListAccount = [SELECT ID, Name,(Select
id,FirstName,LastName from contacts ) FROM ACCOUNT WHERE
BillingState = :state LIMIT 200];
```

```
List<Contact> lstContact = new List<Contact>();
     for (Account acc:ListAccount)
         Contact cont = c.clone(false,false,false,false);
         cont.AccountId = acc.id;
         lstContact.add( cont );
    }
     if(lstContact.size() >0 )
       insert lstContact;
     }
  }
}
AddPrimaryContact Test:
@isTest
public class AddPrimaryContactTest
  @isTest static void TestList()
     List<Account> Teste = new List <Account>();
     for(Integer i=0;i<50;i++)
       Teste.add(new Account(BillingState = 'CA', name = 'Test'+i));
     for(Integer j=0;j<50;j++)
       Teste.add(new Account(BillingState = 'NY', name = 'Test'+j));
     }
```

```
insert Teste;
     Contact co = new Contact();
     co.FirstName='demo';
     co.LastName ='demo';
     insert co;
     String state = 'CA';
     AddPrimaryContact apc = new AddPrimaryContact(co, state);
     Test.startTest();
     System.enqueueJob(apc);
     Test.stopTest();
   }
4.Schedule Jobs Using the Apex Scheduler
DailyLeadProcessor Class:
public class DailyLeadProcessor implements Schedulable {
  Public void execute(SchedulableContext SC){
    List<Lead> LeadObj=[SELECT Id from Lead where LeadSource=null
limit 200];
    for(Lead I:LeadObj){
      I.LeadSource='Dreamforce';
      update I;
  }
DailyLeadProcessor Test:
@isTest
private class DailyLeadProcessorTest {
      static testMethod void testDailyLeadProcessor() {
           String CRON_EXP = '0 0 1 * * ?';
```

Apex Integration Services

1.Apex REST Callouts

AnimalLocator Class:

```
public class AnimalLocator{
   public static String getAnimalNameByld(Integer x){
     Http http = new Http();
     HttpRequest req = new HttpRequest();
     req.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/'
+ x);
   req.setMethod('GET');
   Map<String, Object> animal= new Map<String, Object>();
   HttpResponse res = http.send(req);
     if (res.getStatusCode() == 200) {
```

```
Map<String, Object> results = (Map<String,
Object>)JSON.deserializeUntyped(res.getBody());
   animal = (Map<String, Object>) results.get('animal');
return (String)animal.get('name');
}
AnimalLocatorTest:
@isTest
private class AnimalLocatorTest{
  @isTest static void AnimalLocatorMock1() {
    Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
    string result = AnimalLocator.getAnimalNameById(3);
    String expectedResult = 'chicken';
    System.assertEquals(result,expectedResult);
  }
}
AnimalLocatorMock:
@isTest
global class AnimalLocatorMock implements HttpCalloutMock {
  // Implement this interface method
  global HTTPResponse respond(HTTPRequest request) {
    // Create a fake response
    HttpResponse response = new HttpResponse();
    response.setHeader('Content-Type', 'application/json');
    response.setBody('{"animals": ["majestic badger", "fluffy bunny", "scary
bear", "chicken", "mighty moose"]}');
    response.setStatusCode(200);
    return response;
  }
}
```

2.Apex SOAP Callouts

```
ParkLocator Class:
public class ParkLocator {
  public static string[] country(string theCountry) {
     ParkService.ParksImplPort parkSvc = new
ParkService.ParksImplPort(); // remove space
     return parkSvc.byCountry(theCountry);
  }
}
ParkLocator Test:
@isTest
private class ParkLocatorTest {
  @isTest static void testCallout() {
    Test.setMock(WebServiceMock.class, new ParkServiceMock ());
    String country = 'United States';
    List<String> result = ParkLocator.country(country);
    List<String> parks = new List<String>{'Yellowstone', 'Mackinac National
Park', 'Yosemite'};
     System.assertEquals(parks, result);
  }
}
ParkService Class:
public class ParkService {
  public class byCountryResponse {
    public String[] return_x;
    private String[] return_x_type_info = new
String[]{'return', http://parks.services/',null,'0','-1','false'};
```

```
private String[] apex_schema_type_info = new
String[]{'http://parks.services/','false','false'};
    private String[] field_order_type_info = new String[]{'return_x'};
  }
  public class byCountry {
    public String arg0;
    private String[] arg0_type_info = new
String[]{'arg0','http://parks.services/',null,'0','1','false'};
    private String[] apex_schema_type_info = new
String[]{'http://parks.services/','false','false'};
    private String[] field_order_type_info = new String[]{'arg0'};
  }
  public class ParksImplPort {
    public String endpoint_x = 'https://th-apex-soap-
service.herokuapp.com/service/parks';
    public Map<String,String> inputHttpHeaders_x;
    public Map<String,String> outputHttpHeaders_x;
    public String clientCertName_x;
    public String clientCert_x;
    public String clientCertPasswd_x;
    public Integer timeout_x;
    private String[] ns_map_type_info = new String[]{'http://parks.services/',
'ParkService'};
    public String[] byCountry(String arg0) {
       ParkService.byCountry request_x = new ParkService.byCountry();
      request_x.arg0 = arg0;
      ParkService.byCountryResponse response_x;
       Map<String, ParkService.byCountryResponse> response_map_x =
new Map<String, ParkService.byCountryResponse>();
      response_map_x.put('response_x', response_x);
      WebServiceCallout.invoke(
        this,
```

```
request_x,
       response_map_x,
       new String[]{endpoint_x,
       'http://parks.services/',
       'byCountry',
       'http://parks.services/',
       'byCountryResponse',
       'ParkService.byCountryResponse'}
      );
      response_x = response_map_x.get('response_x');
      return response_x.return_x;
 }
ParkService Mock:
@isTest
global class ParkServiceMock implements WebServiceMock {
  global void doInvoke(
      Object stub,
      Object request,
      Map<String, Object> response,
      String endpoint,
      String soapAction,
      String requestName,
      String responseNS,
      String responseName,
      String responseType) {
    // start - specify the response you want to send
    ParkService.byCountryResponse response_x = new
ParkService.byCountryResponse();
```

```
response x.return x = new List<String>{'Yellowstone', 'Mackinac
National Park', 'Yosemite'};
    // end
    response.put('response x', response x);
 }
3.Apex Web Services
AccountManager Class:
@RestResource(urlMapping='/Accounts/*/contacts')
global class AccountManager {
  @HttpGet
  global static Account getAccount() {
    RestRequest req = RestContext.request;
    String accld = req.requestURI.substringBetween('Accounts/',
'/contacts');
    Account acc = [SELECT Id, Name, (SELECT Id, Name FROM Contacts)
            FROM Account WHERE Id = :accld];
    return acc;
  }
AccountManager Test:
@isTest
private class AccountManagerTest {
  private static testMethod void getAccountTest1() {
    Id recordId = createTestRecord();
    // Set up a test request
    RestRequest request = new RestRequest();
```

```
request.requestUri =
'https://na1.salesforce.com/services/apexrest/Accounts/'+ recordId
+'/contacts';
    request.httpMethod = 'GET';
    RestContext.request = request;
    // Call the method to test
    Account this Account = Account Manager.get Account();
    // Verify results
    System.assert(thisAccount != null);
    System.assertEquals('Test record', thisAccount.Name);
  }
// Helper method
    static Id createTestRecord() {
    // Create test record
    Account TestAcc = new Account(
     Name='Test record');
    insert TestAcc;
    Contact TestCon= new Contact(
    LastName='Test',
    AccountId = TestAcc.id);
    return TestAcc.ld;
 }
```

APEX SPECLIALIST SUPERBADGE

Challenge #1

```
MaintenanceRequest.trigger:
trigger MaintenanceRequest on Case (before update, after update) {
  if(Trigger.isUpdate && Trigger.isAfter){
    MaintenanceRequestHelper.updateWorkOrders(Trigger.New,
Trigger.OldMap);
  }
}
MaintenanceRequestHelper Class:
public with sharing class MaintenanceRequestHelper {
  public static void updateworkOrders(List<Case> updWorkOrders,
Map<Id,Case> nonUpdCaseMap) {
    Set<Id> validIds = new Set<Id>();
    For (Case c : updWorkOrders){
      if (nonUpdCaseMap.get(c.Id).Status != 'Closed' && c.Status ==
'Closed'){
        if (c.Type == 'Repair' || c.Type == 'Routine Maintenance'){
           validIds.add(c.Id);
    }
    //When an existing maintenance request of type Repair or Routine
Maintenance is closed,
```

//create a new maintenance request for a future routine checkup.

```
if (!validIds.isEmpty()){
      Map<Id,Case> closedCases = new Map<Id,Case>([SELECT Id,
Vehicle_c, Equipment_r.Maintenance_Cycle_c,
                         _(SELECT Id,Equipment__c,Quantity__c FROM
Equipment_Maintenance_Items__r)
                              FROM Case WHERE Id IN :validIds]);
      Map<Id,Decimal> maintenanceCycles = new Map<ID,Decimal>();
      //calculate the maintenance request due dates by using the
maintenance cycle defined on the related equipment records.
      AggregateResult[] results = [SELECT Maintenance_Request__c,
                     MIN(Equipment_r.Maintenance_Cycle__c)cycle
                     FROM Equipment_Maintenance_Item__c
                     WHERE Maintenance_Request__c IN :ValidIds
GROUP BY Maintenance_Request__c];
      for (AggregateResult ar : results){
        maintenanceCycles.put((Id) ar.get('Maintenance_Request__c'),
(Decimal) ar.get('cycle'));
      }
      List<Case> newCases = new List<Case>();
      for(Case cc : closedCases.values()){
        Case nc = new Case (
          ParentId = cc.Id.
          Status = 'New'.
          Subject = 'Routine Maintenance',
          Type = 'Routine Maintenance',
          Vehicle_c = cc.Vehicle_c,
          Equipment_c = cc. Equipment_c,
          Origin = 'Web',
          Date_Reported__c = Date.Today()
```

```
);
        //If multiple pieces of equipment are used in the maintenance
request,
        //define the due date by applying the shortest maintenance cycle
to today's date.
 _____//If (maintenanceCycles.containskey(cc.Id)){
          nc.Date_Due__c = Date.today().addDays((Integer)
maintenanceCycles.get(cc.ld));
        //} else {
            nc.Date_Due__c = Date.today().addDays((Integer)
cc.Equipment__r.maintenance_Cycle__c);
        //}
        newCases.add(nc);
      }
      insert newCases;
      List<Equipment_Maintenance_Item__c> clonedList = new
List<Equipment_Maintenance_Item__c>();
      for (Case nc : newCases){
        for (Equipment_Maintenance_Item__c clonedListItem:
closedCases.get(nc.ParentId).Equipment_Maintenance_Items__r){
           Equipment_Maintenance_Item_c item = clonedListItem.clone();
          item.Maintenance_Request__c = nc.ld;
          clonedList.add(item);
        }
      insert clonedList;
 }}
```

Challenge #2

WarehouseCalloutService Class:

```
public with sharing class WarehouseCalloutService {
  private static final String WAREHOUSE_URL = 'https://th-superbadge-
apex.herokuapp.com/equipment';
  //@future(callout=true)
  public static void runWarehouseEquipmentSync(){
    Http http = new Http();
    HttpRequest request = new HttpRequest();
    request.setEndpoint(WAREHOUSE_URL);
    request.setMethod('GET');
    HttpResponse response = http.send(request);
  _List<Product2> warehouseEq = new List<Product2>();
    if (response.getStatusCode() == 200){
      List<Object> jsonResponse =
(List<Object>)JSON.deserializeUntyped(response.getBody());
      System.debug(response.getBody());
      for (Object eq : jsonResponse){
        Map<String,Object> mapJson = (Map<String,Object>)eq;
        Product2 myEq = new Product2();
        myEq.Replacement_Part__c = (Boolean)
mapJson.get('replacement');
```

```
myEq.Name = (String) mapJson.get('name');
        myEq.Maintenance_Cycle__c = (Integer)
mapJson.get('maintenanceperiod');
        myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        myEq.Cost_c = (Decimal) mapJson.get('lifespan');
        myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
        myEq.Current_Inventory_c = (Double) mapJson.get('quantity');
        warehouseEq.add(myEq);
      }
      if (warehouseEq.size() > 0){
        upsert warehouseEq;
        System.debug('Your equipment was synced with the warehouse
one');
        System.debug(warehouseEq);
challenge #3
WarehouseSyncSchedule Class:
global class WarehouseSyncSchedule implements Schedulable {
  global void execute(SchedulableContext ctx) {
    WarehouseCalloutService.runWarehouseEquipmentSync();
 }
}
```

Challenge #4

<u>MaintenanceRequestHelperTest:</u>

```
@isTest
public with sharing class MaintenanceRequestHelperTest {
  // createVehicle
  private static Vehicle__c createVehicle(){
    Vehicle__c vehicle = new Vehicle__C(name = 'Testing Vehicle');
    return vehicle:
  }
  // createEquipment
  private static Product2 createEquipment(){
    product2 equipment = new product2(name = 'Testing equipment',
                      lifespan_months__c = 10,
                       maintenance_cycle__c = 10,
                      replacement_part__c = true);
    return equipment;
  }
  // createMaintenanceRequest
  private static Case createMaintenanceRequest(id vehicleId, id
equipmentId){
    case cse = new case(Type='Repair',
               Status='New',
               Origin='Web',
               Subject='Testing subject',
               Equipment_c=equipmentId,
               Vehicle_c=vehicleId);
```

```
return cse;
  }
  // createEquipmentMaintenanceItem
  private static Equipment_Maintenance_Item__c
createEquipmentMaintenanceItem(id equipmentId,id requestId){
    Equipment_Maintenance_Item__c equipmentMaintenanceItem = new
Equipment_Maintenance_Item__c(
      Equipment_c = equipmentId,
      Maintenance_Request__c = requestId);
    return equipmentMaintenanceItem;
  }
  @isTest
  private static void testPositive(){
    Vehicle__c vehicle = createVehicle();
    insert vehicle;
    id vehicleId = vehicle.Id:
    Product2 equipment = createEquipment();
    insert equipment;
    id equipmentId = equipment.Id;
    case createdCase =
createMaintenanceRequest(vehicleId,equipmentId);
    insert createdCase:
    Equipment_Maintenance_Item__c equipmentMaintenanceItem =
createEquipmentMaintenanceItem(equipmentId,createdCase.id);
    insert equipmentMaintenanceItem;
    test.startTest();
```

```
createdCase.status = 'Closed';
  update createdCase;
 test.stopTest();
  Case newCase = [Select id,
          subject,
          type,
          Equipment__c,
          Date_Reported__c,
          Vehicle__c,
          Date Due c
          from case
          where status ='New'];
  Equipment_Maintenance_Item__c workPart = [select id
                        from Equipment_Maintenance_Item__c
                        where Maintenance_Request__c =:newCase.ld];
 list<case> allCase = [select id from case];
  system.assert(allCase.size() == 2);
  system.assert(newCase != null);
  system.assert(newCase.Subject != null);
  system.assertEquals(newCase.Type, 'Routine Maintenance');
  SYSTEM.assertEquals(newCase.Equipment_c, equipmentId);
  SYSTEM.assertEquals(newCase.Vehicle_c, vehicleId);
  SYSTEM.assertEquals(newCase.Date_Reported__c, system.today());
@isTest
private static void testNegative(){
  Vehicle__C vehicle = createVehicle();
  insert vehicle;
```

}

```
id vehicleId = vehicle.Id;
    product2 equipment = createEquipment();
    insert equipment;
    id equipmentId = equipment.Id;
    case createdCase =
createMaintenanceRequest(vehicleId,equipmentId);
    insert createdCase;
    Equipment_Maintenance_Item__c workP =
createEquipmentMaintenanceItem(equipmentId, createdCase.Id);
    insert workP;
    test.startTest();
    createdCase.Status = 'Working';
    update createdCase;
    test.stopTest();
    list<case> allCase = [select id from case];
    Equipment_Maintenance_Item__c equipmentMaintenanceItem =
select id
                          from Equipment_Maintenance_Item__c
                          where Maintenance_Request__c =
:createdCase.Id];
    system.assert(equipmentMaintenanceItem != null);
    system.assert(allCase.size() == 1);
  }
  @isTest
```

```
private static void testBulk(){
    list<Vehicle_C> vehicleList = new list<Vehicle_C>();
    list<Product2> equipmentList = new list<Product2>();
    list<Equipment_Maintenance_Item__c>
equipmentMaintenanceItemList = new
list<Equipment_Maintenance_Item__c>();
    list<case> caseList = new list<case>();
    list<id> oldCaseIds = new list<id>();
    for(integer i = 0; i < 300; i++){
      vehicleList.add(createVehicle());
      equipmentList.add(createEquipment());
    }
    insert vehicleList;
    insert equipmentList;
    for(integer i = 0; i < 300; i++){
      caseList.add(createMaintenanceRequest(vehicleList.get(i).id,
equipmentList.get(i).id));
    }
    insert caseList;
    for(integer i = 0; i < 300; i++){
equipmentMaintenanceItemList.add(createEquipmentMaintenanceItem(eq
uipmentList.get(i).id, caseList.get(i).id));
    insert equipmentMaintenanceItemList;
    test.startTest();
    for(case cs : caseList){
      cs.Status = 'Closed';
```

```
oldCaseIds.add(cs.Id);
    update caseList;
    test.stopTest();
    list<case> newCase = [select id
                  from case
                  where status ='New'];
    list<Equipment_Maintenance_Item__c> workParts = [select id
                              from Equipment_Maintenance_Item__c
                               where Maintenance_Request__c in:
oldCaseIds];
    system.assert(newCase.size() == 300);
    list<case> allCase = [select id from case];
    system.assert(allCase.size() == 600);
 }
}
Challenge #5
WarehouseCalloutService Mock:
@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {
  // implement http mock callout
  global static HttpResponse respond(HttpRequest request){
    System.assertEquals('https://th-superbadge-
apex.herokuapp.com/equipment', request.getEndpoint());
    System.assertEquals('GET', request.getMethod());
```

```
// Create a fake response
    HttpResponse response = new HttpResponse();
    response.setHeader('Content-Type', 'application/json');
response.setBody('[{"_id":"55d66226726b611100aaf741","replacement":fals
e,"quantity":5,"name":"Generator 1000
kW","maintenanceperiod":365,"lifespan":120,"cost":5000,"sku":"100003"}]');
    response.setStatusCode(200);
    return response;
 }
}
WarehouseCalloutService Test:
@isTest
private class WarehouseCalloutServiceTest {
  @isTest
  static void testWareHouseCallout(){
    Test.startTest();
    // implement mock callout test here
    Test.setMock(HTTPCalloutMock.class, new
WarehouseCalloutServiceMock());
    WarehouseCalloutService.runWarehouseEquipmentSync();
    Test.stopTest();
    System.assertEquals(1, [SELECT count() FROM Product2]);
  }
Challenge #6
WarehouseSyncScheduleTest:
@isTest
public class WarehouseSyncScheduleTest {
  @isTest static void WarehousescheduleTest(){
```

```
String scheduleTime = '00 00 01 **?';
Test.startTest();
Test.setMock(HttpCalloutMock.class, new
WarehouseCalloutServiceMock());
String jobID=System.schedule('Warehouse Time To Schedule to Test', scheduleTime, new WarehouseSyncSchedule());
Test.stopTest();
//Contains schedule information for a scheduled job. CronTrigger is similar to a cron job on UNIX systems.
// This object is available in API version 17.0 and later.
CronTrigger a=[SELECT Id FROM CronTrigger where NextFireTime > today];
System.assertEquals(jobID, a.Id,'Schedule ');
```