Apex Trigger

1.Get Started with Apex Triggers

${\sf AccountAddressTrigger}$

```
trigger AccountAddressTrigger on Account (before insert, before update) {
    for(Account account:Trigger.New){
        if(account.Match_Billing_Address__c == True) {
            account.ShippingPostalCode = account.BillingPostalCode;
        }
    }
```

2.Bulk Apex Triggers

${\sf ClosedOpportunityTrigger}$

```
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.Id));
   }
   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; }
     //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 Class

```
@IsTest
public class TestVerifyDate {
    @isTest static void date2within30daydate1() {
        Date returnDate1 = VerifyDate.CheckDates(date.valueOf('2022-06-14'),date.valueOf('2022-06-24'));
        System.assertEquals(date.valueOf('2022-06-24'), returnDate1);
    }
    @isTest static void date2NOTwithin30daydate1() {
        Date returnDate2 = VerifyDate.CheckDates(date.valueOf('2022-06-14'),date.valueOf('2022-07-24'));
        System.assertEquals(date.valueOf('2022-06-29'), returnDate2);
    }
}
```

2.Test Apex Triggers

RestrictContactByName Trigger

```
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');

}

}
```

TestRestrictContactByName TestClass

```
@IsTest
public class TestRestrictContactByName {
    @IsTest static void createBadContact(){

    Contact c = new Contact(FirstName = 'John', LastName = 'INVALIDNAME');

    Test.startTest();
    Database.SaveResult result = Database.insert(c, false);
    Test.stopTest();

    System.assert(!result.isSuccess());
}
```

3.Create Test Data for Apex Tests

RandomContactFactory Class

```
public class RandomContactFactory {

public static List<Contact> generateRandomContacts(Integer num,String lastname){
    List<Contact> contactList = new List<Contact>();
    for(Integer i = 1;i<=num;i++){
        Contact ct = new Contact(FirstName = 'Test'+i,LastName = lastName);
        contactList.add(ct);
    }
    return contactList;
}</pre>
```

Asynchronous Apex

1.Use Future Methods

AccountProcessor Class

```
public class AccountProcessor {
    @future
    public static void countContacts(List<Id> accountIds) {
        List<Account> accountsToUpdate = new List<Account>();
        List<Account> accounts = [Select Id, Name, (Select Id from Contacts) from Account Where Id IN :accountIds];
        For(Account acc:accounts){
        List<Contact> contactList = acc.Contacts;
        acc.Number_Of_Contacts__c = contactList.size();
        accountsToUpdate.add(acc);
    }
    update accountsToUpdate;
}
```

AccountProcessorTest Class

```
@IsTest
private class AccountProcessorTest {
  @IsTest
  private static void testCountContacts() {
    Account newAccount = new Account(Name ='Test Account');
    insert newAccount;
    Contact newContact1 = new Contact(FirstName='John',
                     LastName='Doe',
                     AccountId=newAccount.Id);
   insert newContact1;
    Contact newContact2 = new Contact(FirstName='Jane',
                     LastName='Doe',
                     AccountId=newAccount.Id);
   insert newContact2:
   List<Id> accountIds = new List<Id>();
   accountIds.add(newAccount.Id);
Test.startTest();
AccountProcessor.countContacts(accountIds);
   Test.stopTest();
}
```

2.Use Batch Apex

LeadProcessor Class

LeadProcessorTest Class

```
@lsTest
private class LeadProcessorTest {
  @isTest
  private static void testBatchClass() {
    //Load test Data
    List<Lead> leads = new List<Lead>();
    for (Integer i =0; i<200; i++) {
      leads.add(new Lead(LastName='Connock', Company = 'Salesforce'));
    insert leads;
//Perform the Test
   Test.startTest();
LeadProcessor Ip = new LeadProcessor();
   Id batchId = Database.executeBatch(lp,200);
    Test.stopTest();
//Check the Result
   List<Lead> updatedLeads = [SELECT Id FROM Lead WHERE Leadsource = 'Dreamforce'];
    System.assertEquals(200, updatedLeads.size(), 'ERROR: At Least 1 lead record not updated correctly');
}
```

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 Istcontact;
 }
}
```

AddPrimaryContactTest Class

```
@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

DailyLeadProcessorTest Class

```
@isTest
public class DailyLeadProcessorTest {
    static testMethod void testDailyLeadProcessor(){
        String CRON_EXP ='0 0 1 * * ?';
        List<Lead> | List = new List<Lead>();
        for (Integer i=0;i<200;i++){
            | IList.add(new Lead(LastName = 'Dreamforce'+i, Company ='Test1 Inc.', status='Open - Not Connected'));
        }
        insert | List;

        Test.startTest();
        string jobId = System.schedule('DailyLeadProcessor', CRON_EXP, new DailyLeadProcessor());
        }
}</pre>
```

Apex Integration Services

1.Apex REST Callouts

AnimalLocator Class

```
public class AnimalLocator {
  public static String getAnimalNameById(Integer animalId) {
    String animalName;
    Http http = new Http();
    HttpRequest request = new HttpRequest();
    request.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/'+animalld);
    request.setMethod('GET');
    HttpResponse response = http.send(request);
    // If the request is successful, parse the JSON response.
    if(response.getStatusCode() == 200) {
   Map<String, Object> r = (Map<String, Object>)
        JSON.deserializeUntyped(response.getbody());
      Map<String, Object> animal = (Map<String, Object>)r.get('animal');
      animalName = string.valueOf(animal.get('name'));
}
    return animalName;
 }
```

AnimalLocatorMock Mock Class

STEP 3: Synchronize Salesforce data with an external system

WarehouseCalloutService Class

```
public with sharing class WarehouseCalloutService implements Queueable {
  private static final String WAREHOUSE_URL = 'https://th-superbadge-apex.herokuapp.com/equipment';
  //Write a class that makes a REST callout to an external warehouse system to get a list of equipment that needs to be
updated.
  //The callout's JSON response returns the equipment records that you upsert in Salesforce.
  @future(callout=true)
  public static void runWarehouseEquipmentSync(){
    System.debug('go into runWarehouseEquipmentSync');
    Http http = new Http();
    HttpRequest request = new HttpRequest();
   request.setEndpoint(WAREHOUSE_URL);
    request.setMethod('GET');
    HttpResponse response = http.send(request);
   List<Product2> product2List = new List<Product2>();
   System.debug(response.getStatusCode());
   if (response.getStatusCode() == 200){
List<Object> jsonResponse = (List<Object>)JSON.deserializeUntyped(response.getBody());
      System.debug(response.getBody());
//class maps the following fields:
//warehouse SKU will be external ID for identifying which equipment records to update within Salesforce
     for (Object jR: jsonResponse){
       Map<String,Object> mapJson = (Map<String,Object>)jR;
        Product2 product2 = new Product2();
        //replacement part (always true),
        product2.Replacement_Part__c = (Boolean) mapJson.get('replacement');
        //cost
        product2.Cost__c = (Integer) mapJson.get('cost');
        //current inventory
        product2.Current_Inventory_c = (Double) mapJson.get('quantity');
        //lifespan
        product2.Lifespan_Months_c = (Integer) mapJson.get('lifespan');
        //maintenance cycle
        product2.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        //warehouse SKU
        product2.Warehouse_SKU__c = (String) mapJson.get('sku');
        product2.Name = (String) mapJson.get('name');
        product2.ProductCode = (String) mapJson.get('_id');
        product2List.add(product2);
}
if (product2List.size() > 0){
       upsert product2List;
        System.debug('Your equipment was synced with the warehouse one');
```

```
}
}

public static void execute (QueueableContext context){
   System.debug('start runWarehouseEquipmentSync');
   runWarehouseEquipmentSync();
   System.debug('end runWarehouseEquipmentSync');
}
```

STEP 4: Schedule synchronization

WarehouseSyncSchedule Class

```
global with sharing class WarehouseSyncSchedule implements Schedulable {
// implement scheduled code here
global void execute (SchedulableContext ctx){
System.enqueueJob(new WarehouseCalloutService());
}
}
```

STEP 5: Test automation logic

https://github.com/minicruiser/Apex-Specialist-Superbadge/blob/main/step5 Test automation logic/MaintenanceRequest.clsMaintenanceRequest 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_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.ld)){
nc.Date_Due__c = Date.today().addDays((Integer) maintenanceCycles.get(cc.Id));
//} 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;
}
```

MaintenanceRequestHelperTest Class

```
@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(equipmentList.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: oldCaselds];
system.assert(newCase.size() == 300);
list<case> allCase = [select id from case];
system.assert(allCase.size() == 600);
}
}
```

STEP 6: Test callout logic

WarehouseCalloutService Class

```
public with sharing class WarehouseCalloutService implements Queueable {
  private static final String WAREHOUSE_URL = 'https://th-superbadge-apex.herokuapp.com/equipment';
  //Write a class that makes a REST callout to an external warehouse system to get a list of equipment that needs to be
updated.
  //The callout's JSON response returns the equipment records that you upsert in Salesforce.
  @future(callout=true)
  public static void runWarehouseEquipmentSync(){
    System.debug('go into runWarehouseEquipmentSync');
    Http http = new Http();
    HttpRequest request = new HttpRequest();
    request.setEndpoint(WAREHOUSE_URL);
    request.setMethod('GET');
    HttpResponse response = http.send(request);
    List<Product2> product2List = new List<Product2>();
    System.debug(response.getStatusCode());
    if (response.getStatusCode() == 200){
List<Object> jsonResponse = (List<Object>)JSON.deserializeUntyped(response.getBody());
     System.debug(response.getBody());
     //class maps the following fields:
      //warehouse SKU will be external ID for identifying which equipment records to update within Salesforce
      for (Object jR: jsonResponse){
        Map<String,Object> mapJson = (Map<String,Object>)jR;
        Product2 product2 = new Product2();
        //replacement part (always true),
        product2.Replacement_Part__c = (Boolean) mapJson.get('replacement');
        product2.Cost__c = (Integer) mapJson.get('cost');
        //current inventory
        product2.Current_Inventory_c = (Double) mapJson.get('quantity');
        //lifespan
        product2.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        //maintenance cycle
        product2.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        //warehouse SKU
```

```
product2.Warehouse_SKU__c = (String) mapJson.get('sku');
        product2.Name = (String) mapJson.get('name');
        product2.ProductCode = (String) mapJson.get('_id');
        product2List.add(product2);
}
      if (product2List.size() > 0){
        upsert product2List;
        System.debug('Your equipment was synced with the warehouse one');
}
}
 }
  public static void execute (QueueableContext context){
    System.debug('start runWarehouseEquipmentSync');
    runWarehouseEquipmentSync();
    System.debug('end runWarehouseEquipmentSync');
 }
}
```

WarehouseCalloutServiceMock Class

```
@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {

// implement http mock callout
global static HttpResponse respond(HttpRequest request) {

HttpResponse response = new HttpResponse();
response.setHeader('Content-Type', 'application/json');
response.setBody('[("_id":"55d66226726b611100aaf741","replacement":false,"quantity":5,"name":"Generator 1000
kW","maintenanceperiod":365,"lifespan":120,"cost":5000,"sku":"100003"),("_id":"55d66226726b611100aaf742","replacement":tr
ue,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},("_id":"55d66226726b611100aaf743","replacement":true,"qu
antity":143,"name":"Fuse 20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005")]');
response.setStatusCode(200);

return response;
}
}
```

WarehouseCalloutServiceTest Class

```
@IsTest
private class WarehouseCalloutServiceTest {
    // implement your mock callout test here
    @isTest
    static void testWarehouseCallout() {
        test.startTest();
        test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
        WarehouseCalloutService.execute(null);
        test.stopTest();

        List<Product2> product2List = new List<Product2>();
        product2List = [SELECT ProductCode FROM Product2];

        System.assertEquals(3, product2List.size());
        System.assertEquals('55d66226726b611100aaf741', product2List.get(0).ProductCode);
        System.assertEquals('55d66226726b611100aaf742', product2List.get(1).ProductCode);
        System.assertEquals('55d66226726b611100aaf743', product2List.get(2).ProductCode);
    }
}
```

STEP 7: Test scheduling logic

WarehouseCalloutServiceMock Class

```
@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {

// implement http mock callout
global static HttpResponse respond(HttpRequest request) {

HttpResponse response = new HttpResponse();
response.setHeader('Content-Type', 'application/json');
response.setBody('[{"_id":"55d66226726b611100aaf741","replacement":false,"quantity":5,"name":"Generator 1000
kW","maintenanceperiod":365,"lifespan":120,"cost":5000,"sku":"100003"},{"_id":"55d66226726b611100aaf742","replacement":tr
ue,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d66226726b611100aaf743","replacement":true,"qu
antity":143,"name":"Fuse 20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}]');
response.setStatusCode(200);

return response;
}
}
```

WarehouseSyncSchedule Class

```
global with sharing class WarehouseSyncSchedule implements Schedulable {
// implement scheduled code here
global void execute (SchedulableContext ctx){
System.enqueueJob(new WarehouseCalloutService());
}
}
```

WarehouseSyncScheduleTest Class

```
@isTest
public with sharing class WarehouseSyncScheduleTest {
    // implement scheduled code here
    //
    @isTest static void test() {
        String scheduleTime = '00 00 00 * * ? *';
        Test.startTest();
        Test.setMock(HttpCalloutMock.class, new WarehouseCalloutServiceMock());
        String jobId = System.schedule('Warehouse Time to Schedule to test', scheduleTime, new WarehouseSyncSchedule());
        CronTrigger c = [SELECT State FROM CronTrigger WHERE Id =: jobId];
        System.assertEquals('WAITING', String.valueOf(c.State), 'JobId does not match');
        Test.stopTest();
    }
}
```

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