#### **Apex Triggers**

#### **Get Started with Apex Triggers**

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

## **Bulk Apex Triggers**

# **Apex Testing**

## Get Started with Apex Unit Tests

```
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
       @TestVisible 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
       @TestVisible 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;
       }
}
@isTest
private class TestVerifyDate {
  @isTest static void Test_CheckDates_case1(){
    Date D= VerifyDate.CheckDates(date.parse('01/01/2020'), date.parse('01/05/2020'));
    System.assertEquals(date.parse('01/05/2020'), D);
  }
  @isTest static void Test_CheckDates_case2(){
    Date D= VerifyDate.CheckDates(date.parse('01/01/2020'), date.parse('05/05/2020'));
```

```
System.assertEquals(date.parse('01/31/2020'), D);
  }
  @isTest static void Test_DateWithin30Days_case1(){
    Boolean flag =
VerifyDate.DateWithin30Days(date.parse('01/01/2020'),date.parse('12/30/2019'));
    System.assertEquals(false,flag);
  @isTest static void Test_DateWithin30Days_case2(){
    Boolean flag =
VerifyDate.DateWithin30Days(date.parse('01/01/2020'),date.parse('02/02/2020'));
    System.assertEquals(false,flag);
  @isTest static void Test_DateWithin30Days_case3(){
    Boolean flag =
VerifyDate.DateWithin30Days(date.parse('01/01/2020'),date.parse('01/15/2020'));
    System.assertEquals(true,flag);
  }
  @isTest static void Test_SetEndOfMonthDate(){
    Date returndate = VerifyDate.SetEndOfMonthDate(date.parse('01/01/2020'));
}
```

# **Test Apex Triggers**

trigger RestrictContactByName on Contact (before insert, before update) {

```
Test.startTest();
Database.SaveResult result = Database.insert(cnt,false);
Test.startTest();

System.assert(!result.isSuccess());
System.assert(result.getErrors().size()>0);
System.assertEquals('The Last Name "INVALIDNAME" is not allowed for DML',result.getErrors()[0].getmessage());
}
```

### **Create Test Data for Apex Tests**

```
public class RandomContactFactory {

public static List<Contact> generateRandomContacts(Integer numcnt,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**

#### **Use Future Methods**

```
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.ld];
      System.debug('No Of Contacts = ' + account.Number_of_Contacts__c);
      updatedAccounts.add(account);
    }
    update updatedAccounts;
}
@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.ld;
    List<Id> acctIds = new List<Id>();
    acctlds.add(a.ld);
    Test.startTest();
    AccountProcessor.countContacts(acctlds);
    Test.stopTest();
  }
}
```

# Use Batch Apex

```
global class LeadProcessor implements Database.Batchable<sObject> {
       global Integer count = 0;
  global Database.QueryLocator start(Database.BatchableContext bc){
    return Database.getQueryLocator('SELECT ID, LeadSource FROM Lead');
  }
  global void execute(Database.BatchableContext bc, List<Lead> L_list){
    List<lead> L_list_new = new List<lead>();
    for(lead L:L_list){
      L.leadsource = 'Dreamforce';
      L_list_new.add(L);
      count += 1;
    }
    update L_list_new;
  global void finish(Database.BatchableContext bc){
    System.debug('count = '+count);
  }
}
@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();
}
```

## Control Processes with Queueable Apex

```
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;
  }
}
```

```
@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();
   }
}
```

# Schedule Jobs Using the Apex Scheduler

```
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;
    }
}
```

### **Apex Integration Services**

### **Apex REST Callouts**

```
public class AnimalLocator{
   public static String getAnimalNameById(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');
   }
}
```

```
@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);
}
@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;
  }
}
```

### **Apex SOAP Callouts**

```
public class ParkLocator {
    public static string[] country(string theCountry) {
        ParkService.ParksImplPort parkSvc = new ParkService.ParksImplPort(); // remove space
        return parkSvc.byCountry(theCountry);
    }
}
@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);
 }
}
@isTest
global class ParkServiceMock implements WebServiceMock {
 global void dolnvoke(
      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'};
    response.put('response_x', response_x);
 }
}
```

#### **Apex Web Services**

```
@RestResource(urlMapping = '/Accounts/*/contacts')
global with sharing class AccountManager {

@HttpGet
    global static Account getAccount(){
        RestRequest request = RestContext.request;
        string accountId = request.requestURI.substringBetween('Accounts/','/contacts');
        Account result = [SELECT Id, Name, (Select Id, Name from Contacts) from Account where Id=:accountId Limit 1];
```

```
return result;
 }
@lsTest
private class AccountManagerTest {
  @isTest static void testGetContactsByAccountId(){
    Id recordId = createTestRecord();
    RestRequest request = new RestRequest();
    request.requestUri =
'https://yourInstance.my.salesforce.com/services/apexrest/Accounts/'
                     + recordId+'/contacts';
    request.httpMethod = 'GET';
    RestContext.request = request;
    Account this Account = Account Manager.get Account();
    System.assert(thisAccount != null);
    System.assertEquals('Test record', thisAccount.Name);
  }
  static Id createTestRecord(){
    Account accountTest = new Account(
       Name ='Test record');
    insert accountTest;
    Contact contactTest = new Contact(
       FirstName='John',
       LastName = 'Doe',
       AccountId = accountTest.Id
    );
    insert contactTest:
    return accountTest.ld;
 }
}
```

### **Apex Specialist**

#### challenge 2

```
trigger MaintenanceRequest on Case (before update, after update) {
  //ToDo: Call MaintenanceRequestHelper.updateWorkOrders
  if(trigger.isAfter){
    MaintenanceRequestHelper.updateWorkOrders();
 }
}
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, Equipmentc,
Equipmentr.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.ld));
        } else {
          nc.Date_Due_c = Date.today().addDays((Integer)
cc.Equipmentr.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.Id;
    clonedList.add(item);
    }
}
insert clonedList;
}
```

```
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 iR: 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');
  }
}
```

global with sharing class WarehouseSyncSchedule implements Schedulable{ global void execute(SchedulableContext ctx){

```
System.enqueueJob(new WarehouseCalloutService());
}
```

```
@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.Id];
```

```
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.ld);
    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'];
```

```
@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":"55d66226726b611
100aaf742","replacement":true,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d66226726b611100a
af743","replacement":true,"quantity":143,"name":"Fuse
20A", "maintenanceperiod": 0, "lifespan": 0, "cost": 22, "sku": "100005" ] );
    response.setStatusCode(200);
    return response;
 }
}
@lsTest
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);
 }
}
challenge 7
@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":"55d66226726b611
100aaf742","replacement":true,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d66226726b611100a
af743","replacement":true,"quantity":143,"name":"Fuse
20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}]');
    response.setStatusCode(200);
```

return response;

} }

```
global with sharing class WarehouseSyncSchedule implements Schedulable{
  global void execute(SchedulableContext ctx){
    System.enqueueJob(new WarehouseCalloutService());
 }
}
@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();
 }
}
```