#### **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**

```
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**

Get Started with Apex Unit Tests

```
@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('02/02/2019'));
    System.assertEquals(false, flag);
}
@isTest static void Test_DateWithin30Days_case3(){
    Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2020'),
date.parse('01/15/2019'));
    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) {
             //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');
                    }
             }
}
@isTest
public class TestRestrictContactByName {
  @isTest static void Test_insertupdateContact(){
    Contact cnt = new Contact();
    cnt.LastName = 'INVALIDNAME';
Test.startTest();
    Database.SaveResult result = Database.insert(cnt,false);
Test.stopTest();
    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 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;
Asynchronous Apex
Use Future Methods
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;
}
@isTest
```

```
private class AccountProcessorTest {
  @isTest
 private static void testCountContacts(){
    Account newAccount = new Account(Name='Test Account');
  insert newAccount;
    Contact newContact1 = new Contact(FirstName='Jhon',LastName =
'Deo', AccountId=newAccount.Id);
insert newContact1;
    Contact newContact2 = new Contact(FirstName='Jane',LastName =
'Deo', AccountId=newAccount.Id);
insert newContact2;
List<Id>accountIds = new List<Id>();
accountids.add(newAccount.ld);
Test.startTest();
   Accountprocessor.countContacts(accountIds);
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 {
@isTest
public static void testit(){
List<lead> L_list = new List<lead>();
   for(Integer i=0;i<200;i++){
   Lead L = new lead();
L.LastName = 'name' +1;
  L.Company = 'Company';
   L.Status = 'Random Status';
   L_list.add(L);
  insert L_list;
Test.startTest();
LeadProcessor Ip = new LeadProcessor();
Id batchId = Database.executeBatch(lp);
Test.stopTest();
}
}
```

#### Control Processes with Queueable Apex

public class AddPrimaryContact implements Queueable{ private Contact con; private String state; public AddPrimaryContact(Contact con,String state){ this.con=con; this.state=state; } public void execute(QueueableContext context){ List<Account> accounts=[Select Id , Name , (Select FirstName , LastName ,Id from contacts) from Account where BillingState = :state Limit 200]; List<Contact> primaryContacts = new List<Contact>(); for(Account acc:accounts){ Contact c = con.clone(); c.AccountId = acc.Id; primaryContacts.add(c); if(primaryContacts.size() > 0){ insert primaryContacts; } } } @isTest

public class AddPrimaryContactTest {

```
static testmethod void testQueueable(){
  List<Account> testAccounts = new List<Account>();
  for(Integer i=0;i<50;i++){}
      testAccounts.add(new Account(Name='Account '+i,BillingState='CA'));
   for(Integer j=0;j<50;j++){
      testAccounts.add(new Account(Name ='Account '+j,BillingState='NY'));
  insert testAccounts;
    Contact testContact = new Contact(FirstName = 'John', LastName = 'Doe');
  insert testContact;
AddPrimaryContact addit = new addPrimaryContact(testContact, 'CA');
Test.startTest();
  system.enqueueJob(addit);
   Test.stopTest();
    System.assertEquals(50,[Select count() from Contact where accounted in (Select Id
from Account where BillingState='CA')]);
}
}
```

# Schedule Jobs Using the Apex Scheduler

```
global class DailyLeadProcessor implements Schedulable {
    global void execute(SchedulableContext ctx){
        List<lead> leadstoupdate = new List<lead>();
        List<Lead> leads=[Select id From Lead where LeadSource=NULL Limit 200];

    for(Lead l:leads){
        I.LeadSource= 'Dreamforce';
        leadstoupdate.add(I);
    }
    update leadstoupdate;
```

```
}
}
@isTest
private class DailyLeadProcessorTest {
public static String CRON_EXP = '0 0 0 15 3 7 2022';
  static testmethod void testScheduledJob(){
    List<Lead> leads = new List<lead>();
  for(Integer i=0;i<200;i++){
    Lead I =new Lead(
        FirstName = 'First' +i,
        LastName ='LastName',
        Company ='The Inc'
    );
      leads.add(l);
  insert leads;
    Test.startTest();
    String jobId = System.schedule('ScheduledApexTest',CRON_EXP,new
DailyLeadProcessor());
Test.stopTest();
    List<Lead> checkleads = new List<Lead>();
    checkleads = [Select Id From Lead Where LeadSource = 'Dreamforce' and Company
= 'The Inc'];
    System.assertEquals(200,checkleads.size(), 'Leads were not created');
}
}
```

# **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);
reg.setMethod('GET');
    Map<String, Object> animal= new Map<String, Object>();
 HttpResponse res = http.send(reg);
      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 doInvoke(
      Object stub,
      Object request,
     Map<String, Object> response,
      String endpoint,
```

```
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);
}
```

#### **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;
    }
}
@IsTest
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,
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.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();
```

}

#### challenge 3

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');
}
```

```
challenge 4
```

```
global with sharing class WarehouseSyncSchedule implements Schedulable{
  global void execute(SchedulableContext ctx){
    System.enqueueJob(new WarehouseCalloutService());
}
challenge 5
@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.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: oldCaseIds];
    system.assert(newCase.size() == 300);
    list<case> allCase = [select id from case];
    system.assert(allCase.size() == 600);
}
```

# challenge 6

```
@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":"55d66226
726b611100aaf742","replacement":true,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d66226726b6
11100aaf743","replacement":true,"quantity":143,"name":"Fuse
20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}]');
    response.setStatusCode(200);
return response;
}
@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);
    }
}
```

# 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":"55d66226
726b611100aaf742","replacement":true,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d66226726b6
11100aaf743","replacement":true,"quantity":143,"name":"Fuse
20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}]');
response.setStatusCode(200);
```

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