

Apex Triggers

Get Started with Apex Triggers

AccountAddressTrigger

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

Bulk Apex Triggers

ClosedOpportunityTrigger

```
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {  
  
    List<Task> taskToOpp = new List<Task>();  
  
    for (Opportunity o : [ SELECT Id,StageName FROM Opportunity WHERE  
        StageName = 'Closed Won' AND Id IN :Trigger.New ]) {  
        taskToOpp.add(new Task( Subject = 'Follow Up Test Task', WhatId = o.Id));  
    }  
  
    if (taskToOpp.size() > 0)  
        insert taskToOpp;  
}
```

Apex Testing

Get Started with Apex Unit Tests

TestVerifyDate

@isTest

```
private class TestVerifyDate {  
  
  
  
    @isTest static void testDate2within30daysofDate1() {  
        Date date1 = date.newInstance(2018, 03, 20);  
        Date date2 = date.newInstance(2018, 04, 11);  
        Date resultDate = VerifyDate.CheckDates(date1,date2);  
        Date testDate = Date.newInstance(2018, 04, 11);  
        System.assertEquals(testDate,resultDate);  
    }  
  
  
  
    @isTest static void testDate2beforeDate1() {  
        Date date1 = date.newInstance(2018, 03, 20);  
        Date date2 = date.newInstance(2018, 02, 11);  
        Date resultDate = VerifyDate.CheckDates(date1,date2);
```

```
Date testDate = Date.newInstance(2018, 02, 11);
```

```
System.assertNotEquals(testDate, resultDate);
```

```
}
```

```
@isTest static void testDate2outside30daysofDate1() {
```

```
Date date1 = date.newInstance(2018, 03, 20);
```

```
Date date2 = date.newInstance(2018, 04, 25);
```

```
Date resultDate = VerifyDate.CheckDates(date1,date2);
```

```
Date testDate = Date.newInstance(2018, 03, 31);
```

```
System.assertEquals(testDate,resultDate);
```

```
}
```

```
}
```

Test Apex Triggers

TestRestrictContactByName

```
@isTest
```

```
private class TestRestrictContactByName {
```

```
@isTest static void testInvalidName() {
```

```
Contact myConact = new Contact(LastName='INVALIDNAME');
```

```
insert myConact;
```

```
Test.startTest();
```

```
Database.SaveResult result = Database.insert(myConact, false);
```

```
Test.stopTest();
```

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

```
System.assert(result.getErrors().size() > 0);
```

```
System.assertEquals('Cannot create contact with invalid last  
name.',
```

```
result.getErrors()[0].getMessage());
```

```
}
```

```
}
```

Create Test Data for Apex Tests

RandomContactFactory

```
public class RandomContactFactory {
```

```
Public Static List<Contact> generateRandomContacts(integer noOfContact, String
```

```

        lastName)
        {
            List<Contact> con=new list<Contact>();
            for(Integer i=0;i<noOfContact;i++)
            {
                Contact c = new Contact(FirstName='Ank' + i,LastName=lastName);
                Con.add(c);
            }

            Return con;
        }
    }
}

```

Asynchronous Apex

Use Future Methods

AccountProcessor

```

public class AccountProcessor {

    @future

    public static void countContacts(List<Id> accountId_lst) {

        Map<Id,Integer> account_cno = new Map<Id,Integer>();

        List<account> account_lst_all = new List<account>([select id, (select id from
            contacts) from account]);

        for(account a:account_lst_all) {

```

```

        account_cno.put(a.id,a.contacts.size());
    }

    List<account> account_lst = new List<account>();
    for(Id accountId : accountId_lst) {
        if(account_cno.containsKey(accountId)) {
            account acc = new account();
            acc.Id = accountId;
            acc.Number_of_Contacts__c = account_cno.get(accountId);
            account_lst.add(acc);
        }
    }

    upsert account_lst;
}
}

```

AccountProcessorTest

```

    @isTest
    public class AccountProcessorTest {

        @isTest
        public static void testFunc() {
            account acc = new account();
            acc.name = 'MATW INC';
            insert acc;

            contact con = new contact();

```

```

        con.lastname = 'Mann1';
        con.AccountId = acc.Id;
        insert con;
        contact con1 = new contact();
        con1.lastname = 'Mann2';
        con1.AccountId = acc.Id;
        insert con1;
    }
}

List<Id> acc_list = new List<Id>();
acc_list.add(acc.Id);
Test.startTest();
AccountProcessor.countContacts(acc_list);
Test.stopTest();

List<account> acc1 = new List<account>([select Number_of_Contacts__c from
account where id = :acc.id]);
system.assertEquals(2,acc1[0].Number_of_Contacts__c);
    }

}

```

Use Batch Apex

LeadProcessor

```

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_lst) {
    List<lead> l_lst_new = new List<lead>();
    for(lead l : l_lst) {
        l.leadsource = 'Dreamforce';
        l_lst_new.add(l);
        count+=1;
    }
    update l_lst_new;
}

global void finish (Database.BatchableContext bc) {
    system.debug('count = '+count);
}
}

```

LeadProcessorTest

```

@Test
public class LeadProcessorTest {

    @Test
    public static void testit() {
        List<lead> l_lst = new List<lead>();
        for (Integer i = 0; i<200; i++) {
            Lead l = new lead();
            l.LastName = 'name'+i;

```



```

        l.company = 'company';
        l.Status = 'somestatus';
        l_lst.add(l);
    }
    insert l_lst;

    test.startTest();

    Leadprocessor lp = new Leadprocessor();
    Id batchId = Database.executeBatch(lp);
    Test.stopTest();

}

}

```

Control Processes with Queueable Apex

AddPrimaryContact

```

public class AddPrimaryContact implements Queueable {
    public contact c;
    public String state;

    public AddPrimaryContact(Contact c, String state) {
        this.c = c;
        this.state = state;
    }
}

```

```

    }

    public void execute(QueueableContext qc) {
        system.debug('this.c = '+this.c+' this.state = '+this.state);
        List<Account> acc_lst = new List<account>([select id, name, BillingState from
account where account.BillingState = :this.state limit 200]);

        List<contact> c_lst = new List<contact>();
        for(account a: acc_lst) {
            contact c = new contact();
            c = this.c.clone(false, false, false, false);
            c.AccountId = a.Id;
            c_lst.add(c);
        }
        insert c_lst;
    }
}

```

AddPrimaryContactTest

```

@Test
public class AddPrimaryContactTest {

    @IsTest
    public static void testing() {
        List<account> acc_lst = new List<account>();
        for (Integer i=0; i<50;i++) {
            account a = new account(name=string.valueOf(i),billingstate='NY');
            system.debug('account a = '+a);
        }
    }
}

```

```

        acc_lst.add(a);
    }
    for (Integer i=0; i<50;i++) {
        account a = new account(name=string.valueOf(50+i),billingstate='CA');
        system.debug('account a = '+a);
        acc_lst.add(a);
    }
    insert acc_lst;
    Test.startTest();
    contact c = new contact(lastname='alex');
    AddPrimaryContact apc = new AddPrimaryContact(c,'CA');
    system.debug('apc = '+apc);
    System.enqueueJob(apc);
    Test.stopTest();
    List<contact> c_lst = new List<contact>([select id from contact]);
    Integer size = c_lst.size();
    system.assertEquals(50, size);
}
}

```

Schedule Jobs Using the Apex Scheduler

DailyLeadProcessor

```

global class DailyLeadProcessor implements Schedulable{
    global void execute(SchedulableContext ctx){
        List<Lead> leads = [SELECT Id, LeadSource FROM Lead WHERE LeadSource =
    ];
    }
    if(leads.size() > 0){

```

```

        List<Lead> newLeads = new List<Lead>();

        for(Lead lead : leads){
            lead.LeadSource = 'DreamForce';
            newLeads.add(lead);
        }

        update newLeads;
    }
}

```

DailyLeadProcessorTest

@isTest

```

private class DailyLeadProcessorTest{
    //Seconds Minutes Hours Day_of_month Month Day_of_week optional_year
    public static String CRON_EXP = '0 0 0 2 6 ? 2022';

    static testmethod void testScheduledJob(){
        List<Lead> leads = new List<Lead>();

        for(Integer i = 0; i < 200; i++){
            Lead lead = new Lead(LastName = 'Test ' + i, LeadSource = "", Company = 'Test
Company ' + i, Status = 'Open - Not Contacted');
            leads.add(lead);
        }
    }
}

```

```

insert leads;

Test.startTest();
String jobId = System.schedule('Update LeadSource to DreamForce', CRON_EXP,
new DailyLeadProcessor());
Test.stopTest();
}
}

```

Apex Integration Services

Apex REST Callouts

AnimalLocator

```

public class AnimalLocator {
    public class cls_animal {
        public Integer id;
        public String name;
        public String eats;
        public String says;
    }
    public class JSONOutput{
        public cls_animal animal;

    }

    public static String getAnimalNameById (Integer id) {
        Http http = new Http();
    }
}

```

```

        HttpRequest request = new HttpRequest();
        request.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/' + id);
        request.setMethod('GET');
        HttpResponse response = http.send(request);
        system.debug('response: ' + response.getBody());
        JSON.deserializeUntyped(response.getBody());
        jsonOutput results = (jsonOutput) JSON.deserialize(response.getBody(),
            jsonOutput.class);

        system.debug('results= ' + results.animal.name);
        return(results.animal.name);
    }

}

```

AnimalLocatorTest

```

    @IsTest
    public class AnimalLocatorTest {
        @isTest
        public static void testAnimalLocator() {
            Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
            String s = AnimalLocator.getAnimalNameById(1);
            system.debug('string returned: ' + s);
        }
    }
}

```

AnimalLocatorMock

```
@IsTest
global class AnimalLocatorMock implements HttpCalloutMock {

    global HTTPResponse respond(HTTPPrerequest request) {
        HttpResponse response = new HttpResponse();
        response.setStatusCode(200);
        response.setBody('{"animal":{"id":1,"name":"chicken","eats":"chicken
            food","says":"cluck cluck"}}');
        return response;
    }
}
```

Apex SOAP Callouts

ParkLocator

```
public class ParkLocator {

    public static String[] country(String country){
        ParkService.ParksImplPort parks = new ParkService.ParksImplPort();
        String[] parksname = parks.byCountry(country);
        return parksname;
    }
}
```

ParkLocatorTest

```
        @isTest
        private class ParkLocatorTest{
            @isTest
            static void testParkLocator() {
                Test.setMock(WebServiceMock.class, new ParkServiceMock());
                String[] arrayOfParks = ParkLocator.country('India');

                System.assertEquals('Park1', arrayOfParks[0]);
            }
        }
```

ParkServiceMock

```
        @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) {
    ParkService.byCountryResponse response_x = new
        ParkService.byCountryResponse();
    List<String> lstOfDummyParks = new List<String> {'Park1','Park2','Park3'};
    response_x.return_x = lstOfDummyParks;

    response.put('response_x', response_x);
    }
}

```

Apex Web Services

AccountManager

```

@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;
    }
}

```

AccountManagerTest

```
@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 thisAccount = AccountManager.getAccount();
        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.Id;
```

```
}
```

```
}
```

Apex Specialist

CHALLENGE 1

MaintenanceRequestHelper.apxc

```
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);
```

```
                }  
            }  
        }
```

```
        if (!validIds.isEmpty()){  
            List<Case> newCases = new List<Case>();  
            Map<Id,Case> closedCasesM = 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>();
    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'));
    }

```

```

for(Case cc : closedCasesM.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 (maintenanceCycles.containsKey(cc.Id)){
    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> clonedWPs = new
List<Equipment_Maintenance_Item__c>();
    for (Case nc : newCases){
        for (Equipment_Maintenance_Item__c wp :
closedCasesM.get(nc.ParentId).Equipment_Maintenance_Items__r){
            Equipment_Maintenance_Item__c wpClone = wp.clone();
            wpClone.Maintenance_Request__c = nc.Id;
            ClonedWPs.add(wpClone);

        }
    }
    insert ClonedWPs;
}
}
}

```

MaintenanceRequest.apxt

trigger MaintenanceRequest on Case (before update, after update) {

```

    if(Trigger.isUpdate && Trigger.isAfter){

        MaintenanceRequestHelper.updateWorkOrders(Trigger.New, Trigger.OldMap);

    }

}

```

CHALLENGE 2

WarehouseCalloutService.apxc

```

public with sharing class WarehouseCalloutService implements Queueable {
    private static final String WAREHOUSE_URL = 'https://th-superbadge-
apex.herokuapp.com/equipment';

```

```

    @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());

    for (Object jR : jsonResponse){
        Map<String,Object> mapJson = (Map<String,Object>)jR;
        Product2 product2 = new Product2();
        product2.Replacement_Part__c = (Boolean) mapJson.get('replacement');
        product2.Cost__c = (Integer) mapJson.get('cost');
        product2.Current_Inventory__c = (Double) mapJson.get('quantity');
        product2.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        product2.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        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');
}

```

```
}
```

Execute Anonymous Window

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

CHALLENGE 3

WarehouseSyncSchedule.apxc

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

CHALLENGE 4

MaintenanceRequestHelperTest.apxc

```
@istest  
public with sharing class MaintenanceRequestHelperTest {  
  
    private static final string STATUS_NEW = 'New';  
    private static final string WORKING = 'Working';  
    private static final string CLOSED = 'Closed';  
    private static final string REQUEST_ORIGIN = 'Web';  
    private static final string REQUEST_SUBJECT = 'Testing subject';
```



```
private static final string REQUEST_TYPE = 'Routine Maintenance';
private static final string REPAIR = 'Repair';
PRIVATE STATIC Vehicle__c createVehicle(){
    Vehicle__c Vehicle = new Vehicle__C(name = 'SuperTruck');
    return Vehicle;
}
```

```
PRIVATE STATIC Product2 createEq(){
    product2 equipment = new product2(name = 'SuperEquipment',
        lifespan_months__C = 10,
        maintenance_cycle__C = 10,
        replacement_part__c = true);
    return equipment;
}
```

```
PRIVATE STATIC Case createMaintenanceRequest(id vehicleId, id equipmentId){
    case cs = new case(Type=REPAIR,
        Status=STATUS_NEW,
        Origin=REQUEST_ORIGIN,
        Subject=REQUEST_SUBJECT,
        Equipment__c=equipmentId,
        Vehicle__c=vehicleId);
    return cs;
}
```

```
PRIVATE STATIC Equipment_Maintenance_Item__c createWorkPart(id
equipmentId,id requestId){
    Equipment_Maintenance_Item__c wp = new
Equipment_Maintenance_Item__c(Equipment__c = equipmentId,
```

```
Maintenance_Request__c = requestId);  
  
    return wp;  
}
```

@istest

```
private static void testMaintenanceRequestPositive(){
```

```
    Vehicle__c vehicle = createVehicle();
```

```
    insert vehicle;
```

```
    id vehicleId = vehicle.Id;
```

```
    Product2 equipment = createEq();
```

```
    insert equipment;
```

```
    id equipmentId = equipment.Id;
```

```
    case somethingToUpdate = createMaintenanceRequest(vehicleId,equipmentId);
```

```
    insert somethingToUpdate;
```

```
    Equipment_Maintenance_Item__c workP =
```

```
createWorkPart(equipmentId,somethingToUpdate.id);
```

```
    insert workP;
```

```
    test.startTest();
```

```
    somethingToUpdate.status = CLOSED;
```

```
    update somethingToUpdate;
```

```
    test.stopTest();
```

```
    Case newReq = [Select id, subject, type, Equipment__c, Date_Reported__c,  
Vehicle__c, Date_Due__c
```

```
from case
where status =:STATUS_NEW];
```

```
Equipment_Maintenance_Item__c workPart = [select id
                                             from Equipment_Maintenance_Item__c
                                             where Maintenance_Request__c =:newReq.Id];
```

```
system.assert(workPart != null);
system.assert(newReq.Subject != null);
system.assertEquals(newReq.Type, REQUEST_TYPE);
SYSTEM.assertEquals(newReq.Equipment__c, equipmentId);
SYSTEM.assertEquals(newReq.Vehicle__c, vehicleId);
SYSTEM.assertEquals(newReq.Date_Reported__c, system.today());
}
```

```
@istest
```

```
private static void testMaintenanceRequestNegative(){
```

```
    Vehicle__C vehicle = createVehicle();
    insert vehicle;
    id vehicleId = vehicle.Id;
```

```
    product2 equipment = createEq();
    insert equipment;
    id equipmentId = equipment.Id;
```

```
    case emptyReq = createMaintenanceRequest(vehicleId,equipmentId);
    insert emptyReq;
```

```
    Equipment_Maintenance_Item__c workP = createWorkPart(equipmentId,
```

```

emptyReq.Id);
    insert workP;

    test.startTest();
    emptyReq.Status = WORKING;
    update emptyReq;
    test.stopTest();

    list<case> allRequest = [select id
                            from case];

    Equipment_Maintenance_Item__c workPart = [select id
                                                from Equipment_Maintenance_Item__c
                                                where Maintenance_Request__c = :emptyReq.Id];

    system.assert(workPart != null);
    system.assert(allRequest.size() == 1);
}

@istest
private static void testMaintenanceRequestBulk(){
    list<Vehicle__C> vehicleList = new list<Vehicle__C>();
    list<Product2> equipmentList = new list<Product2>();
    list<Equipment_Maintenance_Item__c> workPartList = new
list<Equipment_Maintenance_Item__c>();
    list<case> requestList = new list<case>();
    list<id> oldRequestIds = new list<id>();

    for(integer i = 0; i < 300; i++){

```



```

list<Equipment_Maintenance_Item__c> workParts = [select id
                                                    from Equipment_Maintenance_Item__c
                                                    where Maintenance_Request__c in: oldRequestIds];

system.assert(allRequests.size() == 300);
}
}

```

CHALLENGE 5

WarehouseCalloutServiceTest.apxc

```

@IsTest
private class WarehouseCalloutServiceTest {
    @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);
    }
}

```

WarehouseCalloutServiceMock.apxc

@isTest

global class WarehouseCalloutServiceMock implements HttpCalloutMock {

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":"55d6
6226726b611100aaf742","replacement":true,"quantity":183,"name":"Cooling
Fan","maintenanceperiod":0,"lifespan":0,"cost":300,"sku":"100004"},{"_id":"55d662267
26b611100aaf743","replacement":true,"quantity":143,"name":"Fuse
20A","maintenanceperiod":0,"lifespan":0,"cost":22,"sku":"100005"}]");
response.setStatusCode(200);

```

return response;

```

    }
}

```

CHALLENGE 6

WarehouseSyncScheduleTest.apxc

```
@isTest
public with sharing class WarehouseSyncScheduleTest {
    @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();
    }
}
```