

Superbadge-1(Apex Specialist)

Apex trigger:

//Create an apex trigger-1: '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;
        }
    }
}
```

//Create an apex trigger-2: 'ClosedOpportunityTrigger'

```
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
    List<task> tl=new List<task>();
    for(Opportunity opp:Trigger.new)
    {
        if(opp.StageName =='Closed Won')
        {
            tl.add(new Task(Subject = 'Follow Up Test Task',WhatId=opp.Id));
        }
    }
    if(tl.size()>0)
    {
        insert tl;
    }
}
```

Apex Testing:

//Create an apex class 'VerifyDate'

```
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
    List<task> tl=new List<task>();
    for(Opportunity opp:Trigger.new)
    {
        if(opp.StageName =='Closed Won')
        {
            tl.add(new Task(Subject = 'Follow Up Test Task',WhatId=opp.Id));
        }
    }
    if(tl.size()>0)
```

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```
{
    insert tl;
}
}
```

//Create an apex trigger ‘RestrictContactByName’

```
trigger RestrictContactByName on Contact (before insert, before update) {
    //check contacts prior to insert or update for invalid data
    For (Contact c : Trigger.New) {
        if(c.LastName == 'INVALIDNAME') {    //invalidname is invalid
            c.AddError('The Last Name '"+c.LastName+"' is not allowed for DML');
        }
    }
}
```

//Create a class ‘TestRestrictContactByName’

```
@isTest
public class TestRestrictContactByName{
    @isTest static void testRestrictContactByName () {
        Contact c = new Contact(LastName='INVALIDNAME');
        try{
            insert c;
        }
        catch(DMLException e){
            System.assert(e.getMessage().contains('The Last Name '"+c.LastName+"' is not allowed
for DML'));
        }
    }
}
```

//Create an apex class ‘RandomContactFactory’

```
public class RandomContactFactory {
    public static List<Contact> generateRandomContacts(Integer numcnt,string ln)
    {
        List<Contact> contacts=new List<Contact>();
        for(Integer i=1;i<=numcnt;i++){
            Contact ct=new Contact(FirstName='Test '+i, LastName=ln);
            contacts.add(ct);
        }
        return contacts;
    }
}
```

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Asynchronous Apex:

//Create an apex class 'AccountProcessor'

```
public class AccountProcessor {
    @future
    public static void countContacts(List<ID>accountIds)
    {
        List<Account> atu=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> cl=acc.Contacts;
            acc.Number_Of_Contacts__c=cl.size();
            atu.add(acc);
        }
        update atu;
    }
}
```

//Create an apex classn'AccountProcessoeTest'

```
@isTest
public class AccountProcessorTest {
    @isTest
    private static void testCountContacts()
    {
        Account nA=new Account(Name='Test Account');
        insert nA;
        Contact nc1=new Contact(FirstName='John',
                                LastName='Doe',
                                AccountId=nA.Id);
        insert nc1;
        Contact nc2=new Contact(FirstName='Jane',
                                lastName='Doe',
                                AccountId=nA.Id);
        insert nc2;
        List<Id> accountIds=new List<Id>();
        accountIds.add(nA.Id);
        Test.startTest();
        AccountProcessor.countContacts(accountIds);
        Test.stopTest();
    }
}
```

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```
}  
}
```

//Create an apex class 'LeadProcessor'

```
public class LeadProcessor implements  
    Database.Batchable<sObject> {  
    // instance member to retain state across transactions  
    public Database.QueryLocator start(Database.BatchableContext bc) {  
        return Database.getQueryLocator(  
            'SELECT ID from Lead'  
        );  
    }  
    public void execute(Database.BatchableContext bc, List<Lead> scope){  
        // process each batch of records  
        List<Lead>leads=new List<Lead>();  
        for (Lead lead : scope) {  
            lead.LeadSource='Dreamforce';  
            leads.add(lead);  
        }  
        update leads;  
    }  
    public void finish(Database.BatchableContext bc){  
  
    }  
}
```

//Create an apex test class 'LeadProcessorTest'

```
@isTest  
public class LeadProcessorTest {  
    @isTest  
    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();  
    }  
}
```

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```
Id batchId = Database.executeBatch(lp);
Test.stopTest();
}
}
```

//Create an apex class '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;
    }
}
```

//Create an apex test class 'AddPrimaryContactTest'

```
@IsTest
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');
```

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```
        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);
}

}
```

//Create an apex class '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;
        }
    }
}
```

//Create an apex test class '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');
        }
    }
}
```

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```
        leads.add(lead);
    }
    insert leads;
    Test.startTest();
    // Schedule the test job
    String jobId = System.schedule('Update LeadSource to DreamForce', CRON_EXP, new
DailyLeadProcessor());
    // Stopping the test will run the job synchronously
    Test.stopTest();
}
}
```

Apex Integration Services:

//Create an apex class 'AnimalLocator'

```
public class AnimalLocator
{
    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);
        String strResp = "";
        system.debug('*****response '+response.getStatusCode());
        system.debug('*****response '+response.getBody());
        // If the request is successful, parse the JSON response.
        if (response.getStatusCode() == 200)
        {
            // Deserializes the JSON string into collections of primitive data types.
            Map<String, Object> results = (Map<String, Object>)
JSON.deserializeUntyped(response.getBody());
            // Cast the values in the 'animals' key as a list
            Map<string,object> animals = (map<string,object>) results.get('animal');
            System.debug('Received the following animals:' + animals );
            strResp = string.valueOf(animals.get('name'));
            System.debug('strResp >>>>>>' + strResp );
        }
        return strResp ;
    }
}
```

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```
}
```

```
//Create an apex test class 'AnimalLocatorTest'
```

```
@isTest
```

```
private class AnimalLocatorTest{
```

```
    @isTest static void AnimalLocatorMock1() {
```

```
        Test.SetMock(HttpCallOutMock.class, new AnimalLocatorMock());
```

```
        string result=AnimalLocator.getAnimalNameById(3);
```

```
        string expectedResult='chicken';
```

```
        System.assertEquals(result, expectedResult);
```

```
    }
```

```
}
```

```
//Generated by wsdl2apex
```

```
public class ParkService {
```

```
    public class byCountryResponse {
```

```
        public String[] return_x;
```

```
        private String[] return_x_type_info = new String[] {'return','http://parks.services/',null,'0','-1','false'};
```

```
        private String[] apex_schema_type_info = new String[] {'http://parks.services/',false,false};
```

```
        private String[] field_order_type_info = new String[] {'return_x'};
```

```
    }
```

```
    public class byCountry {
```

```
        public String arg0;
```

```
        private String[] arg0_type_info = new String[] {'arg0','http://parks.services/',null,'0','1','false'};
```

```
        private String[] apex_schema_type_info = new String[] {'http://parks.services/',false,false};
```

```
        private String[] field_order_type_info = new String[] {'arg0'};
```

```
    }
```

```
    public class ParksImplPort {
```

```
        public String endpoint_x = 'https://th-apex-soap-service.herokuapp.com/service/parks';
```

```
        public Map<String,String> inputHttpHeaders_x;
```

```
        public Map<String,String> outputHttpHeaders_x;
```

```
        public String clientCertName_x;
```

```
        public String clientCert_x;
```

```
        public String clientCertPasswd_x;
```

```
        public Integer timeout_x;
```

```
        private String[] ns_map_type_info = new String[] {'http://parks.services/', 'ParkService'};
```

```
        public String[] byCountry(String arg0) {
```

```
            ParkService.byCountry request_x = new ParkService.byCountry();
```

```
            request_x.arg0 = arg0;
```

```
            ParkService.byCountryResponse response_x;
```

```
            Map<String, ParkService.byCountryResponse> response_map_x = new Map<String, ParkService.byCountryResponse>();
```


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```
response_map_x.put('response_x', response_x);
WebServiceCallout.invoke(
    this,
    request_x,
    response_map_x,
    new String[]{endpoint_x,
        "",
        'http://parks.services/',
        'byCountry',
        'http://parks.services/',
        'byCountryResponse',
        'ParkService.byCountryResponse'}
    );
response_x = response_map_x.get('response_x');
return response_x.return_x;
}
}
}
```

//Create an apex class 'ParkLocator'

//Generated by wsdl2apex

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

//Create an apex test class '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]);
    }
}
```

//Create an apex class 'AccountManager'

```
@RestResource(urlMapping='/Accounts/*/contacts')
```

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```
global class AccountManager {
    @HttpGet
    global static Account getAccount() {
        RestRequest req = RestContext.request;
        String accId = req.requestURI.substringBetween('Accounts/', '/contacts');
        Account acc = [SELECT Id, Name, (SELECT Id, Name FROM Contacts)
                        FROM Account WHERE Id = :accId];
        return acc;
    }
}

//Create an apex test class 'AccountManagerTest'
@isTest
private class AccountManagerTest {
    private static testMethod void getAccountTest1() {
        Id recordId = createTestRecord();
        // Set up a test request
        RestRequest request = new RestRequest();
        request.requestUri = 'https://na1.salesforce.com/services/apexrest/Accounts/'+ recordId
        +'/contacts';
        request.httpMethod = 'GET';
        RestContext.request = request;
        // Call the method to test
        Account thisAccount = AccountManager.getAccount();
        // Verify results
        System.assert(thisAccount != null);
        System.assertEquals('Test record', thisAccount.Name);
    }
    static Id createTestRecord() {
        // Create test record
        Account TestAcc = new Account(
            Name='Test record');
        insert TestAcc;
        Contact TestCon= new Contact(
            LastName='Test',
            AccountId = TestAcc.id);
        return TestAcc.Id;
    }
}
```

Apex Specialist:

//Create an apex class 'MaintenanceRequest'

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```
trigger MaintenanceRequest on Case (before update, after update) {
    if(Trigger.isUpdate && Trigger.isAfter){
        MaintenanceRequestHelper.updateWorkOrders(Trigger.New, Trigger.OldMap);
    }
}
```

//Create an apex class 'MaintenanceRequestHelper'

```
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()

                );
            }
        }
    }
}
```

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```
If (maintenanceCycles.containsKey(cc.Id)){
    nc.Date_Due__c = Date.today().addDays((Integer) maintenanceCycles.get(cc.Id));
}
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;
}
}
```

//Create a class ‘ WarehouseCalloutService’

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

//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(){
    Http http = new Http();
    HttpRequest request = new HttpRequest();
    request.setEndpoint(WAREHOUSE_URL);
    request.setMethod('GET');
    HttpResponse response = http.send(request);
    List<Product2> warehouseEq = new List<Product2>();
    if (response.getStatusCode() == 200){
        List<Object> jsonResponse =
(List<Object>)JSON.deserializeUntyped(response.getBody());
        System.debug(response.getBody());
        //class maps the following fields: replacement part (always true), cost, current inventory,
lifespan, maintenance cycle, and warehouse SKU
        //warehouse SKU will be external ID for identifying which equipment records to update
within Salesforce
        for (Object eq : jsonResponse){
```

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```
Map<String,Object> mapJson = (Map<String,Object>)eq;
Product2 myEq = new Product2();
myEq.Replacement_Part__c = (Boolean) mapJson.get('replacement');
myEq.Name = (String) mapJson.get('name');
myEq.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
myEq.Cost__c = (Integer) mapJson.get('cost');
myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
myEq.Current_Inventory__c = (Double) mapJson.get('quantity');
myEq.ProductCode = (String) mapJson.get('_id');
warehouseEq.add(myEq);
}
if (warehouseEq.size() > 0){
    upsert warehouseEq;
    System.debug('Your equipment was synced with the warehouse one');
}
}
}
public static void execute (QueueableContext context){
    runWarehouseEquipmentSync();
}
}

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

//Create a class ' WarehouseCalloutService'
public with sharing class WarehouseCalloutService implements Queueable {
    private static final String WAREHOUSE_URL = 'https://th-superbadge-
apex.herokuapp.com/equipment';
    //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(){
        Http http = new Http();
        HttpRequest request = new HttpRequest();
        request.setEndpoint(WAREHOUSE_URL);
        request.setMethod('GET');
        HttpResponse response = http.send(request);
    }
}
```

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```
List<Product2> warehouseEq = new List<Product2>();
if (response.getStatusCode() == 200){
    List<Object> jsonResponse =
(List<Object>)JSON.deserializeUntyped(response.getBody());
    System.debug(response.getBody());
    //class maps the following fields: replacement part (always true), cost, current inventory,
lifespan, maintenance cycle, and warehouse SKU
    //warehouse SKU will be external ID for identifying which equipment records to update
within Salesforce
    for (Object eq : jsonResponse){
        Map<String,Object> mapJson = (Map<String,Object>)eq;
        Product2 myEq = new Product2();
        myEq.Replacement_Part__c = (Boolean) mapJson.get('replacement');
        myEq.Name = (String) mapJson.get('name');
        myEq.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        myEq.Cost__c = (Integer) mapJson.get('cost');
        myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
        myEq.Current_Inventory__c = (Double) mapJson.get('quantity');
        myEq.ProductCode = (String) mapJson.get('_id');
        warehouseEq.add(myEq);
    }
    if (warehouseEq.size() > 0){
        upsert warehouseEq;
        System.debug('Your equipment was synced with the warehouse one');
    }
}
}
}
public static void execute (QueueableContext context){
    runWarehouseEquipmentSync();
}
}
```

//Create a class 'WarehouseCalloutService'

```
public with sharing class WarehouseCalloutService {
    private static final String WAREHOUSE_URL = 'https://th-superbadge-
apex.herokuapp.com/equipment';
    //@future(callout=true)
    public static void runWarehouseEquipmentSync(){
        Http http = new Http();
        HttpRequest request = new HttpRequest();
        request.setEndpoint(WAREHOUSE_URL);
        request.setMethod('GET');
        HttpResponse response = http.send(request);
    }
}
```

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```
List<Product2> warehouseEq = new List<Product2>();
if (response.getStatusCode() == 200){
    List<Object> jsonResponse =
(List<Object>)JSON.deserializeUntyped(response.getBody());
    System.debug(response.getBody());
    for (Object eq : jsonResponse){
        Map<String,Object> mapJson = (Map<String,Object>)eq;
        Product2 myEq = new Product2();
        myEq.Replacement_Part__c = (Boolean) mapJson.get('replacement');
        myEq.Name = (String) mapJson.get('name');
        myEq.Maintenance_Cycle__c = (Integer) mapJson.get('maintenanceperiod');
        myEq.Lifespan_Months__c = (Integer) mapJson.get('lifespan');
        myEq.Cost__c = (Decimal) mapJson.get('lifespan');
        myEq.Warehouse_SKU__c = (String) mapJson.get('sku');
        myEq.Current_Inventory__c = (Double) mapJson.get('quantity');
        warehouseEq.add(myEq);
    }
    if (warehouseEq.size() > 0){
        upsert warehouseEq;
        System.debug('Your equipment was synced with the warehouse one');
        System.debug(warehouseEq);
    }
}
}
```

//Create a class ‘WarehouseCalloutServiceTest’

```
@isTest
private class WarehouseCalloutServiceTest {
    @isTest
    static void testWareHouseCallout(){
        Test.startTest();
        // implement mock callout test here
        Test.setMock(HTTPCalloutMock.class, new WarehouseCalloutServiceMock());
        WarehouseCalloutService.runWarehouseEquipmentSync();
        Test.stopTest();
        System.assertEquals(1, [SELECT count() FROM Product2]);
    }
}
```

//Create a class ‘ WarehouseCalloutServiceMock’

```
@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {
    // implement http mock callout
    global static HttpResponse respond(HttpRequest request){
```

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```
System.assertEquals('https://th-superbadge-apex.herokuapp.com/equipment',
request.getEndpoint());
System.assertEquals('GET', request.getMethod());
// Create a fake response
HttpResponse response = new HttpResponse();
response.setHeader('Content-Type', 'application/json');

response.setBody("[{"_id":"55d66226726b611100aaf741","replacement":false,"quantity":5,"name":
"Generator 1000 kW","maintenanceperiod":365,"lifespan":120,"cost":5000,"sku":"100003"}]");
response.setStatusCode(200);
return response;
}
}

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