APEX SPECIALIST SUPER BADGE CODES

APEX TRIGGERS

AccountAddressTrigger.apxt:-

```
trigger AccountAddressTrigger on Account (before insert,before update) {
    for(Account a:Trigger.New){
        if(a.Match_Billing_Address__c==true){
            a.ShippingPostalCode=a.BillingPostalCode;
        }
    }
}
ClosedOpportunityTrigger.apxt:-
trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
    List<Task> taskList = new List <task>();
    for(Opportunity opp : Trigger.New){
```

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

VerifyDate.apxc:-

```
public class VerifyDate {
   public static Date CheckDates(Date date1, Date date2) {
   if(DateWithin30Days(date1,date2)) {
     return date2;
   }
   else {
```

```
return SetEndOfMonthDate(date1);
  }
 private static Boolean DateWithin30Days(Date date1, Date date2) {
      if( date2 < date1) { return false; }
      Date date30Days = date1.addDays(30);
  if( date2 >= date30Days ) { return false; }
  else { return true; }
 }
 private static Date SetEndOfMonthDate(Date date1) {
  Integer totalDays = Date.daysInMonth(date1.year(), date1.month());
  Date lastDay = Date.newInstance(date1.year(), date1.month(), totalDays);
  return lastDay;
 }
TestVerifyDate.apxc
@isTest
public class TestVerifyDate
  static testMethod void testMethod1()
    Date d = VerifyDate.CheckDates(System.today(),System.today()+1);
    Date d1 = VerifyDate.CheckDates(System.today(),System.today()+60);
}
RestrictContactByName.apxt
trigger RestrictContactByName on Contact (before insert, before update) {
       for (Contact c : Trigger.New) {
                if(c.LastName == 'INVALIDNAME') {
                c.AddError('The Last Name "'+c.LastName+" is not allowed for DML');
         }
```

```
@isTest
private class TestRestrictContactByName {
       static testMethod void metodoTest() {
            List<Contact> listContact= new List<Contact>();
            Contact c1 = new Contact(FirstName='Francesco', LastName='Riggio',
       email='Test@test.com');
            Contact c2 = new Contact(FirstName='Francesco1', LastName =
       'INVALIDNAME',email='Test@test.com');
            listContact.add(c1);
            listContact.add(c2);
            Test.startTest();
              try{
                 insert listContact;
              catch(Exception ee){}
            Test.stopTest();
RandomContactFactory.apxc:
public class RandomContactFactory {
  public static List<Contact> generateRandomContacts(Integer numContactsToGenerate, String
FName) {
    List<Contact> contactList = new List<Contact>();
    for(Integer i=0;i<numContactsToGenerate;i++) {</pre>
       Contact c = new Contact(FirstName=FName + ' ' + i, LastName = 'Contact '+i);
       contactList.add(c);
       System.debug(c);
```

```
System.debug(contactList.size());
return contactList;
}
```

Asynchronous Apex

AccountProcessor.apxc

a.Name = 'Test Account';

```
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.Id];
       System.debug('No Of Contacts = ' + account.Number_of_Contacts__c);
       updatedAccounts.add(account);
    update updatedAccounts;
AccountProcessorTest.apxc
@isTest
public class AccountProcessorTest {
  @isTest
  public static void testNoOfContacts(){
    Account a = new 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.Id;
    List<Id> acctIds = new List<Id>();
    acctIds.add(a.Id);
    Test.startTest();
    AccountProcessor.countContacts(acctIds);
    Test.stopTest();
LeadProcessor.apxc:
public class LeadProcessor implements Database.Batchable<sObject> {
  public Database.QueryLocator start(Database.BatchableContext bc) {
     return Database.getQueryLocator([Select LeadSource From Lead ]);
  public void execute(Database.BatchableContext bc, List<Lead> leads){
       for (Lead Lead : leads) {
         lead.LeadSource = 'Dreamforce';
    update leads;
```

```
public void finish(Database.BatchableContext bc){
LeadProcessorTest.apxc
@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();
AddPrimaryContact.apxc
public class AddPrimaryContact implements Queueable
```

@isTest

```
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;
AddPrimaryContactTest.apxc
```

```
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();
DailyLeadProcessor.apxc
public class DailyLeadProcessor implements Schedulable {
```

```
Public void execute(SchedulableContext SC){
    List<Lead> LeadObj=[SELECT Id from Lead where LeadSource=null limit 200];
    for(Lead l:LeadObj){
       1.LeadSource='Dreamforce';
       update 1;
DailyLeadProcessorTest.apxc
@isTest
private class DailyLeadProcessorTest {
        static testMethod void testDailyLeadProcessor() {
                 String CRON EXP = '0 0 1 * * ?';
                 List<Lead> lList = new List<Lead>();
           for (Integer i = 0; i < 200; i++) {
                          lList.add(new Lead(LastName='Dreamforce'+i, Company='Test1
Inc.', Status='Open - Not Contacted'));
                 insert lList;
                 Test.startTest();
                 String jobId = System.schedule('DailyLeadProcessor', CRON EXP, new
DailyLeadProcessor());
        }
```

Apex Integration Services

AnimalLocator.apxc:

```
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');
AnimalLocatorTest.apxc
@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 );
```

```
}
AnimalLocatorMock.apxc
@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;
  }
ParkLocator.apxc
public class ParkLocator {
  public static string[] country(string theCountry) {
    ParkService.ParksImplPort parkSvc = new ParkService.ParksImplPort(); // remove space
    return parkSvc.byCountry(theCountry);
```

ParkLocatorTest.apxc

```
@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);
          }
       ParkServiceMock.apxc
       @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) {
            // 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);
AccountManager.apxc
@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.apxc
@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.Id;
}
```

APEX SPECIALIST SUPER BADGE

Challenge 1:

MaintenanceRequestHelper.apxc

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

Challenge-3:

WarehouseSyncSchedule.apxc

```
global class WarehouseSyncSchedule implements Schedulable {
    global void execute(SchedulableContext ctx) {
        WarehouseCalloutService.runWarehouseEquipmentSync();
    }
}
```

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 REPAIR = 'Repair';
private static final string REQUEST ORIGIN = 'Web';
private static final string REQUEST_TYPE = 'Routine Maintenance';
private static final string REQUEST_SUBJECT = 'Testing subject';
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++)
              vehicleList.add(createVehicle());
               equipmentList.add(createEq());
            insert vehicleList;
            insert equipmentList;
             for(integer i = 0; i < 300; i++)
               requestList.add(createMaintenanceRequest(vehicleList.get(i).id, equipmentList.get(i).id));
            insert requestList;
             for(integer i = 0; i < 300; i++)
               workPartList.add(createWorkPart(equipmentList.get(i).id, requestList.get(i).id));
            insert workPartList;
```

```
test.startTest();
    for(case req : requestList){
      req.Status = CLOSED;
      oldRequestIds.add(req.Id);
    update requestList;
    test.stopTest();
    list<case> allRequests = [select id
                   from case
                   where status =: STATUS_NEW];
    list<Equipment Maintenance Item c> workParts = [select id
                                from Equipment Maintenance Item c
                                where Maintenance Request c in: oldRequestIds];
    system.assert(allRequests.size() == 300);
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));
        }
        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-5:

WarehouseCalloutService.apxc

```
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);
    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);
WarehouseCalloutServiceTest.apxc
@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]);
WarehouseCalloutServiceMock.apxc
@isTest
global class WarehouseCalloutServiceMock implements HttpCalloutMock {
  global static HttpResponse respond(HttpRequest request){
    System.assertEquals('https://th-superbadge-apex.herokuapp.com/equipment',
request.getEndpoint());
    System.assertEquals('GET', request.getMethod());
    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;
```

```
}
Challenge-6:
WarehouseSyncSchedule.apxc
global class WarehouseSyncSchedule implements Schedulable {
  global void execute(SchedulableContext ctx) {
    WarehouseCalloutService.runWarehouseEquipmentSync();
WarehouseSyncScheduleTest.apxc
@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();
```

CronTrigger a=[SELECT Id FROM CronTrigger where NextFireTime > today];

```
System.assertEquals(jobID, a.Id,'Schedule ');
}
```