}

APEX SPECIALIST SUPER BADGE CODES **APEX TRIGGERS** AccountAddressTrigger.axpt: trigger AccountAddressTrigger on Account (before insert,before update) { for(Account account:Trigger.New){ if(account.Match_Billing_Address__c == True){ account.ShippingPostalCode = account.BillingPostalCode; }}} ClosedOpportunityTrigger.axpt: trigger ClosedOpportunityTrigger on Opportunity (after insert,after update) { List tasklist = new List(); 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; }} SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 2 APEX TESTING VerifyData.apxc: public class VerifyDate { public static Date CheckDates(Date date1, Date date2) { if(DateWithin30Days(date1,date2)) { return date2; } else { return SetEndOfMonthDate(date1); }} @TestVisible private static Boolean DateWithin30Days(Date date1, Date date2) { //check for date2 being in the past if(date2 < date1) return false;

```
//check that date2 is within (>=) 30 days of date1
Date date30Days = date1.addDays(30);
//create a date 30 days away from date1 if( date2 >= date30Days ) {
return false;
}
else {
return true;
}}
//method to return the end of the month of a given date
@TestVisible private static Date SetEndOfMonthDate(Date date1) {
Integer totalDays = Date.daysInMonth(date1.year(), date1.month());
Date lastDay = Date.newInstance(date1.year(), date1.month(), totalDays);
return lastDay;
} } TestVerifyData.apxc:
@isTest SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 3
private class TestVerifyDate {
@isTest static void Test_CheckDates_case1(){
Date D = VerifyDate.CheckDates(date.parse('01/01/2022'),
date.parse('01/05/ System.assertEquals(date.parse('01/05/2022'), D);
}
@isTest static void Test_CheckDates_case2(){ Date D =
VerifyDate.CheckDates(date.parse('01/01/2022'),
date.parse('05/05/2022'));
System.assertEquals(date.parse('01/31/2022'), D);
@isTest static void Test_Within30Days_case1()
Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('12/30/2021'));
System.assertEquals(false, flag);
@isTest static void Test_Within30Days_case2()
Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('02/02/2021')); System.assertEquals(false, flag); } @isTest static void
```

```
Test_Within30Days_case3(){
Boolean flag = VerifyDate.DateWithin30Days(date.parse('01/01/2022'),
date.parse('01/15/2022'));
System.assertEquals(true, flag);
}
@isTest static void Test_SetEndOfMonthDate(){
Date returndate = VerifyDate.SetEndOfMonthDate(date.parse('01/01/2022'));
}}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 4
RestrictContactByName.apxt:
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
}}}
TestRestrictContactByName.apxc:
@isTest private 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
result.getErrors()[0].getMessage());
}}
RandomContactFactory.apxc:
public class RandomContactFactory {
public static List generateRandomContacts(Integer num_cnts, string lastname) {
List contacts = new List();
for(Integer i = 0; i < num_cnts; i++)
```

```
{
Contact cnt = new Contact(FirstName = 'Test' +i,LastName = SPSGP-12153-Salesforce
Developer Catalyst Self-Learning & Super Badges 5 lastname);
contacts.add(cnt);
}
return contacts:
}}
ASYNCHRONOUS APEX AccountProcessor.apxc:
public class AccountProcessor {
 @future public static void countContacts(List accountId_lst) {
    Map account_cno = new Map();
 List account_lst_all = new List([select id, (select id from contacts) from account]);
for(account a:account_lst_all) {
    account_cno.put(a.id,a.contacts.size());
//populate the map
  }
  List account_lst = new List();
// list of account that we will upsert
for(Id accountId : accountId_lst) {
    if(account_cno.containsKey(accountId)) {
    account acc = new account();
 acc.ld = accountld;
 acc.Number_of_Contacts__c = account_cno.get(accountId);
account_lst.add(acc);
    }
          }
 upsert account_lst;
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 6
}
AccountProcessorTest.apxc:
@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 acc_list = new List();
   acc_list.add(acc.ld);
 Test.startTest();
AccountProcessor.countContacts(acc_list);
  Test.stopTest();
    List acc1 = new List([select Number_of_Contacts__c from account where id =
:acc.id]);
  system.assertEquals(2,acc1[0].Number_of_Contacts__c);
} LeadProcessor.apxc: SPSGP-12153-Salesforce Developer Catalyst Self-Learning &
Super Badges 7 global class LeadProcessor implements Database.Batchable {
 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 I_lst) {
 List I_lst_new = new List();
                                for(lead I : I_lst) {
   I.leadsource = 'Dreamforce';
      I_lst_new.add(l);
                             count+=1;
  }
        update l_lst_new;
                            }
  global void finish (Database.BatchableContext bc) {
  system.debug('count = '+count);
 } LeadProcessorTest.apxc: @isTest public class LeadProcessorTest {
             public static void testit() {
@isTest
   List I_lst = new List();
 for (Integer i = 0; i < 200; i++) {
     Lead I = new lead();
```

```
I.LastName = 'name'+i;
  l.company = 'company';
     I.Status = 'somestatus';
   I_lst.add(I); SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super
Badges 8
}
insert l_lst;
  test.startTest();
   Leadprocessor lp = new Leadprocessor();
 Id batchId = Database.executeBatch(lp);
   Test.stopTest();
 } } AddPrimaryContact.apxc:
public class AddPrimaryContact implements Queueable {
 public contact c; public String state;
  public AddPrimaryContact(Contact c, String state) {
                 this.state = state:
  this.c = c;
 }
 public void execute(QueueableContext qc) {
    system.debug('this.c = '+this.c+' this.state = '+this.state);
 List acc_lst = new List([select id, name, BillingState from account where
account.BillingState = :this.state limit 200]);
   List c_lst = new List();
 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; SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges
9 }}
AddPrimaryContactTest.apxc:
@IsTest public class AddPrimaryContactTest {
@lsTest
 public static void testing() {
  List acc_lst = new List();
```

```
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 c_lst = new List([select id from contact]);
   Integer size = c_lst.size();
  system.assertEquals(50, size);
  }}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 10
DailyLeadProcessor.apxc: public class DailyLeadProcessor implements schedulable{
public void execute(schedulableContext sc) {
 List I_lst_new = new List();
 List I_lst = new List([select id, leadsource from lead where leadsource = null]);
for(lead I : I_lst) {
     l.leadsource = 'Dreamforce';
    l_lst_new.add(l);
         update l_lst_new;
   }
 }}
DailyLeadProcessorTest.apxc:
@isTest public class DailyLeadProcessorTest {
  @isTest public static void testing() {
 List I_lst = new List();
```

```
for(Integer i=0;i<200;i++) {
      lead I = new lead();
   I.lastname = 'lastname'+i;
      l.Company = 'company'+i;
    I_lst.add(l);
  }
 insert I_lst;
 Test.startTest();
  DailyLeadProcessor dlp = new DailyLeadProcessor ();
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 11
String jobId = System.Schedule('dailyleadprocessing','0 0 0 1 12 ? 2016',dlp);
Test.stopTest();
  List I_lst_chk = new List([select id,leadsource from lead where leadsource !=
'Dreamforce']);
 System.assertequals(0,l_lst_chk.size());
 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 JSONOutput parse(String json){
//return (JSONOutput) System.JSON.deserialize(json, JSONOutput.class);
//} }
 public static String getAnimalNameById (Integer id) {
     Http http = new Http();
   HttpRequest request = new HttpRequest();
request.setEndpoint('https://th-apex-httpcallout.herokuapp.com/animals/' + id);
//request.setHeader('id', String.valueof(id));
-- cannot be used in this SPSGP-12153-Salesforce Developer Catalyst Self-Learning &
Super Badges 12 challenge :)
  request.setMethod('GET');
  HttpResponse response = http.send(request);
  system.debug('response: ' + response.getBody());
  //Map map_results = (Map) JSON.deserializeUntyped(response.getBody());
```

```
jsonOutput results = (jsonOutput)
JSON.deserialize(response.getBody(), jsonOutput.class);
  //Object results = (Object) map_results.get('animal');
system.debug('results= ' + results.animal.name);
  return(results.animal.name);
 }}
AnimalLocatorMock.apxc:
@IsTest global class AnimalLocatorMock implements HttpCalloutMock {
 global HTTPresponse respond(HTTPrequest request) {
    Httpresponse response = new Httpresponse();
  response.setStatusCode(200);
 //-- directly output the JSON, instead of creating a logic
//response.setHeader('key, value)
 //Integer id = Integer.valueof(request.getHeader('id'));
  //Integerid = 1;
  //List lst_body = new List {'majestic badger', 'fluffy bunny'};
//system.debug('animal return value: ' + lst_body[id]);
 response.setBody('{"
animal":{"id":1,"name":"chicken","eats":"chicken food","says":"cluck cluck"}}');
   return response;
 }}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 13
AnimalLocatorTest.apxc:
@IsTest public class AnimalLocatorTest {
  @isTest public static void testAnimalLocator() {
   Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
//Httpresponse response = AnimalLocator.getAnimalNameById(1);
 String s = AnimalLocator.getAnimalNameById(1);
  system.debug('string returned: ' + s);
 }}
ParkService.apxc:
//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 {
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 14
public String endpoint_x = 'https://th-apex-soapservice.herokuapp.com/service/parks';
public Map inputHttpHeaders_x;
public Map 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 response_map_x = new Map();
    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;
  } }}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 15
ParkLocator.apxc: public class ParkLocator {
 public static String[] country(String country){
   ParkService.ParksImplPort parks = new ParkService.ParksImplPort();
  String[] parksname = parks.byCountry(country);
return parksname;
} } ParkLocatorTest.apxc:
@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.apxc:
@isTest global class ParkServiceMock implements WebServiceMock {
                                                                       global void
dolnvoke(
                Object stub,
                                  Object request,
                                                       Map response,
                                                                            String
               String soapAction,
                                       String requestName, SPSGP-12153-Salesforce
endpoint,
Developer Catalyst Self-Learning & Super Badges 16
                                                         String responseNS,
String responseName,
                           String responseType)
{
ParkService.byCountryResponse response_x = new ParkService.byCountryResponse();
List lstOfDummyParks = new List {'Park1','Park2','Park3'};
  response_x.return_x = lstOfDummyParks;
  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.substring(request.requestURI.lastIndexOf('/')-18,
request.requestURI.lastIndexOf('/'));
   List a = [select id, name, (select id, name from contacts) from account where id =
:accountIdl:
```

```
List co = [select id, name from contact where account.id = :accountId];
system.debug('** a[0]= '+ a[0]);
 return a[0];
}}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 17
AccountManagerTest.apxc:
@lstest(SeeAllData=true)
public class AccountManagerTest {
 @lsTest public static void testaccountmanager() {
  RestRequest request = new RestRequest();
  request.requestUri = 'https://mannharleen-
deved.my.salesforce.com/services/apexrest/Accounts/00190000016cw4tAAA/c
ontacts';
 request.httpMethod = 'GET';
   RestContext.request = request; system.debug('test account result = '+
AccountManager.getAccount());
}}
APEX SPECIALIST SUPER BADGE Challenge 1 MaintenanceRequestHelper.apxc: public
with sharing class MaintenanceRequestHelper {
public static void updateWorkOrders(List caseList)
List newCases = new List();
Map result=getDueDate(caseList);
for(Case c : caseList){
if(c.status=='closed')
if(c.type=='Repair' || c.type=='Routine Maintenance'){
Case newCase = new Case();
newCase.Status='New':
newCase.Origin='web'; SPSGP-12153-Salesforce Developer Catalyst Self-Learning &
Super Badges 18 newCase. Type='Routine Maintenance';
newCase.Subject='Routine Maintenance of Vehicle';
newCase.Vehicle__c=c.Vehicle__c;
newCase.Equipment_c=c.Equipment_c;
newCase.Date_Reported__c=Date.today();
if(result.get(c.ld)!=null)
```

```
newCase.Date_Due__c=Date.today()+result.get(c.ld);
else newCase.Date_Due__c=Date.today();
newCases.add(newCase);
}}
insert newCases;
} // public static Map getDueDate(List CaseIDs)
{
Map result = new Map(); Map caseKeys = new Map (CaseIDs);
List wpc=[select Maintenance_Request__r.ID
cID,min(Equipment__r.Maintenance_Cycle__c)cycle from Work_Part__c where
Maintenance_Request__r.ID in :
caseKeys.keySet() group by
    Maintenance_Request__r.ID ];
for(AggregateResult res:wpc){
Integer addDays=0; if(res.get('cycle')!=null)
addDays+=Integer.valueOf(res.get('cycle'));
result.put((String)res.get('cID'),addDays);
}
return result;
}}
MaintenanceRequest.apxt:
trigger MaintenanceRequest on Case (before update, after update) {
// ToDo:
Call MaintenanceRequestHelper.updateWorkOrders SPSGP-12153-Salesforce
Developer Catalyst Self-Learning & Super Badges 19 if(Trigger.isAfter)
MaintenanceRequestHelper.updateWorkOrders(Trigger.New);
} Challenge 2:
WarehouseCalloutService.apxt:
public with sharing class WarehouseCalloutService {
private static final String WAREHOUSE_URL = 'https://th-
superbadgeapex.herokuapp.com/equipment';
@future(callout=true)
public static void runWarehouseEquipmentSync()
{
//ToDo: complete this method to make the callout (using @future) to the //
                                                                           REST
```

```
endpoint and update equipment on hand.
HttpResponse response = getResponse();
if(response.getStatusCode() == 200) {
List results = getProductList(response);
//get list of products from Http callout response if(results.size() >0)
upsert results Warehouse_SKU__c;
//Upsert the products in your org based on the external ID SKU
}}
//Get the product list from the external link public static List
getProductList(HttpResponse response)
{
List externalProducts = (List)
JSON.deserializeUntyped(response.getBody());
//desrialize the ison response List newProducts = new List();
for(Object p : externalProducts) {
Map productMap = (Map) p
; Product2 pr = new Product2();
//Map the fields in the response to the appropriate fields in the Equipment object
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 20
pr.Replacement_Part_c = (Boolean)productMap.get('replacement');
pr.Cost__c = (Integer)productMap.get('cost');
pr.Current_Inventory__c = (Integer)productMap.get('quantity');
pr.Lifespan_Months__c = (Integer)productMap.get('lifespan');
pr.Maintenance_Cycle__c = (Integer)productMap.get('maintenanceperiod');
pr.Warehouse_SKU__c = (String)productMap.get('sku');
pr.ProductCode = (String)productMap.get('_id');
pr.Name = (String)productMap.get('name');
newProducts.add(pr); } return newProducts;
// Send Http GET request and receive Http response public static HttpResponse
getResponse()
Http http = new Http();
HttpRequest request = new HttpRequest();
request.setEndpoint(WAREHOUSE_URL);
```

```
request.setMethod('GET');
HttpResponse response = http.send(request);
return response;
}}
Challenge 3:
WarehouseSyncSchedule.apxt global class WarehouseSyncSchedule implements
Schedulable{
// implement scheduled code here global void execute (SchedulableContext sc){
WarehouseCalloutService.runWarehouseEquipmentSync();
//optional this can be done by debug mode String sch = '00 00 01 * * ?';
//on 1 pm System.schedule('WarehouseSyncScheduleTest', sch, new
WarehouseSyncSchedule());
}
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 21
}
Challenge 4:
MaintenanceRequest.apxt: trigger MaintenanceRequest on Case (before update, after
update) {
if(Trigger.isUpdate && Trigger.isAfter)
MaintenanceRequestHelper.updateWorkOrders(Trigger.New);
} InstallationTests.apxt:
@IsTest private class InstallationTests {
private static final String STRING_TEST = 'TEST';
private static final String NEW_STATUS = '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 = 'AMC Spirit';
public static String CRON_EXP = '0 0 1 * * ?';
static testmethod void testMaintenanceRequestNegative()
Vehicle__c vehicle = createVehicle();
insert vehicle:
```

```
Id vehicleId = vehicle.Id;
Product2 equipment = createEquipment();
insert equipment; Id equipmentId = equipment.Id;
Case r = createMaintenanceRequest(vehicleId, equipmentId);
insert r; Work_Part_c w = createWorkPart(equipmentId, r.Id);
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 22 insert w;
Test.startTest();
r.Status = WORKING;
update r;
Test.stopTest();
List allRequest = [SELECT Id FROM Case];
Work_Part_c workPart = [SELECT Id FROM Work_Part_c WHERE
Maintenance_Request__c =: r.ld];
System.assert(workPart != null);
System.assert(allRequest.size() == 1);
}
static testmethod void testWarehouseSync()
{ Test.setMock(HttpCalloutMock.class,
new WarehouseCalloutServiceMock());
Test.startTest(); String jobId = System.schedule('WarehouseSyncSchedule',
CRON_EXP, new WarehouseSyncSchedule());
CronTrigger ct = [SELECT Id, CronExpression, TimesTriggered, NextFireTime FROM
CronTrigger WHERE id = :jobId];
System.assertEquals(CRON_EXP, ct.CronExpression);
System.assertEquals(0, ct.TimesTriggered); Test.stopTest();
} private static Vehicle_c createVehicle() {
Vehicle__c v = new Vehicle__c(Name = STRING_TEST);
return v;
private static Product2 createEquipment()
{
Product2 p = new Product2(Name = STRING_TEST, Lifespan_Months__c = 10,
Maintenance_Cycle__c = 10,
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 23
Replacement_Part__c = true);
```

```
return p;
private static Case createMaintenanceRequest(Id vehicleId, Id equipmentId)
Case c = new Case(Type = REPAIR, Status = NEW_STATUS, Origin = REQUEST_ORIGIN,
Subject = REQUEST_SUBJECT, Equipment_c = equipmentId, Vehicle_c = vehicleId);
return c:
}
private static Work_Part__c createWorkPart(Id equipmentId, Id requestId)
Work_Part_c wp = new Work_Part_c(Equipment_c = equipmentId,
Maintenance_Request__c = requestId);
return wp;
}}
MaintenanceRequestHelper.apxt:
public with sharing class MaintenanceRequestHelper {
public static void updateWorkOrders(List caseList) {
List newCases = new List(); Map result=getDueDate(caseList);
for(Case c : caseList){
if(c.status=='closed')
if(c.type=='Repair' || c.type=='Routine Maintenance')
{
Case newCase = new Case();
newCase.Status='New';
newCase.Origin='web'; newCase.Type='Routine Maintenance';
newCase.Subject='Routine Maintenance of Vehicle';
newCase.Vehicle__c=c.Vehicle__c;
newCase.Equipment__c=c.Equipment__c;
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 24
newCase.Date_Reported__c=Date.today();
if(result.get(c.Id)!=null)
newCase.Date_Due__c=Date.today()+result.get(c.ld);
else
newCase.Date_Due__c=Date.today();
newCases.add(newCase);
```

```
}
insert newCases;
// public static Map getDueDate(List CaseIDs){
Map result = new Map();
Map caseKeys = new Map (CaseIDs);
List wpc=[select Maintenance_Request__r.ID
cID,min(Equipment__r.Maintenance_Cycle__c)cycle from Work_Part__c where
Maintenance_Request__r.ID in :
caseKeys.keySet() group by
     Maintenance_Request__r.ID ];
for(AggregateResult res :wpc){
Integer addDays=0; if(res.get('cycle')!=null)
addDays+=Integer.valueOf(res.get('cycle'));
result.put((String)res.get('cID'),addDays);
}
return result;
}}
MaintenanceRequestTest.apxt:
@isTest public class MaintenanceRequestTest
{ static List caseList1 = new List();
static List prodList = new List();
SPSGP-12153-Salesforce Developer Catalyst Self-Learning & Super Badges 25 static
List wpList = new List();
@testSetup static void getData(){
caseList1 = CreateData(300,3,3,'Repair'); }
public static List CreateData(Integer numOfcase, Integer numofProd, Integer
numofVehicle, String type)
List caseList = new List();
//Create Vehicle Vehicle__c vc = new Vehicle__c();
vc.name='Test Vehicle'; upsert vc;
//Create Equiment
for(Integer i=0;i caselist = [Select count(id) from case where case] Test.stopTest();
```

}
}