## **Use Future Methods**

Create an Apex class that uses the @future annotation to update Account records.

Create an Apex class with a future method that accepts a List of Account IDs and updates a custom field on the Account object with the number of contacts associated to the Account. Write unit tests that achieve 100% code coverage for the class. Every hands-on challenge in this module asks you to create a test class.

Create a field on the Account object:

```
 Label: Number Of Contacts Name: Number_Of_Contacts
```

- o This field will hold the total number of Contacts for the Account
- Create an Apex class:

Type: Number

```
Name: AccountProcessorMethod name: countContacts
```

- The method must accept a List of Account IDs
- The method must use the @future annotation
- The method counts the number of Contact records associated to each Account ID passed to the method and updates the 'Number\_Of\_Contacts\_\_c' field with this value

```
public class AccountProcessor {
    @future
    public static void countContacts(Set<Id> setId) {
        List<Account> lstAccount = [Select Id, Number_Of_Contacts__c, (select Id from cont acts) from Account Where Id IN :setId];

    for (Account acc: lstAccount){
        List<contact> lstCont = acc.contacts;

        acc.Number_Of_Contacts__c = lstCont.size();
    }
}
```

Use Future Methods 1

```
update lstAccount;
}
```

- Create an Apex test class:
  - Name: AccountProcessorTest
  - The unit tests must cover all lines of code included in the AccountProcessor class, resulting in 100% code coverage.
- Before verifying this challenge, run your test class at least once using the Developer Console Run All feature

```
@isTest
public class AccountProcessorTest {
    public static testmethod void TestAccountProcessorTest(){
       Account a = new Account();
       a.Name = 'Test Account';
       Insert a;
       Contact cont = New Contact();
       cont.FirstName = 'Jane';
       cont.LastName = 'Austin';
       cont.AccountId = a.Id;
       Insert cont;
       set<Id> setAccId = new set<Id>();
       setAccId.add(a.Id);
       Test.startTest();
           AccountProcessor.countContacts(setAccId);
       Test.stopTest();
       Account ACC =[Select Number_Of_Contacts__c from Account where id =:a.Id LIMIT 1];
       System.assertEquals (Integer.valueOf(ACC.Number_Of_Contacts__c) ,1);
   }
}
```

Use Future Methods 2