

Asynchronous Apex

Use Future Methods

AccountProcessor Code:

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

AccountProcessorTest

```
@IsTest
private class AccountProcessorTest {
    @IsTest
    private static void testCountContacts(){
        Account newAccount = new Account(Name= 'Test Account');
        insert newAccount;

        Contact newContact1 = new
Contact(FirstName='John',LastName='Doe',AccountId =
newAccount.Id);
        insert newContact1;

        Contact newContact2 = new
Contact(FirstName='Jane',LastName='Doe',AccountId =
newAccount.Id);
        insert newContact2;

        List<Id> accountIds = new List<Id>();
        accountIds.add(newAccount.Id);

        Test.startTest();
        AccountProcessor.countContacts(accountIds);
        Test.stopTest();
    }
}
```

}