

Apex Testing Assignment

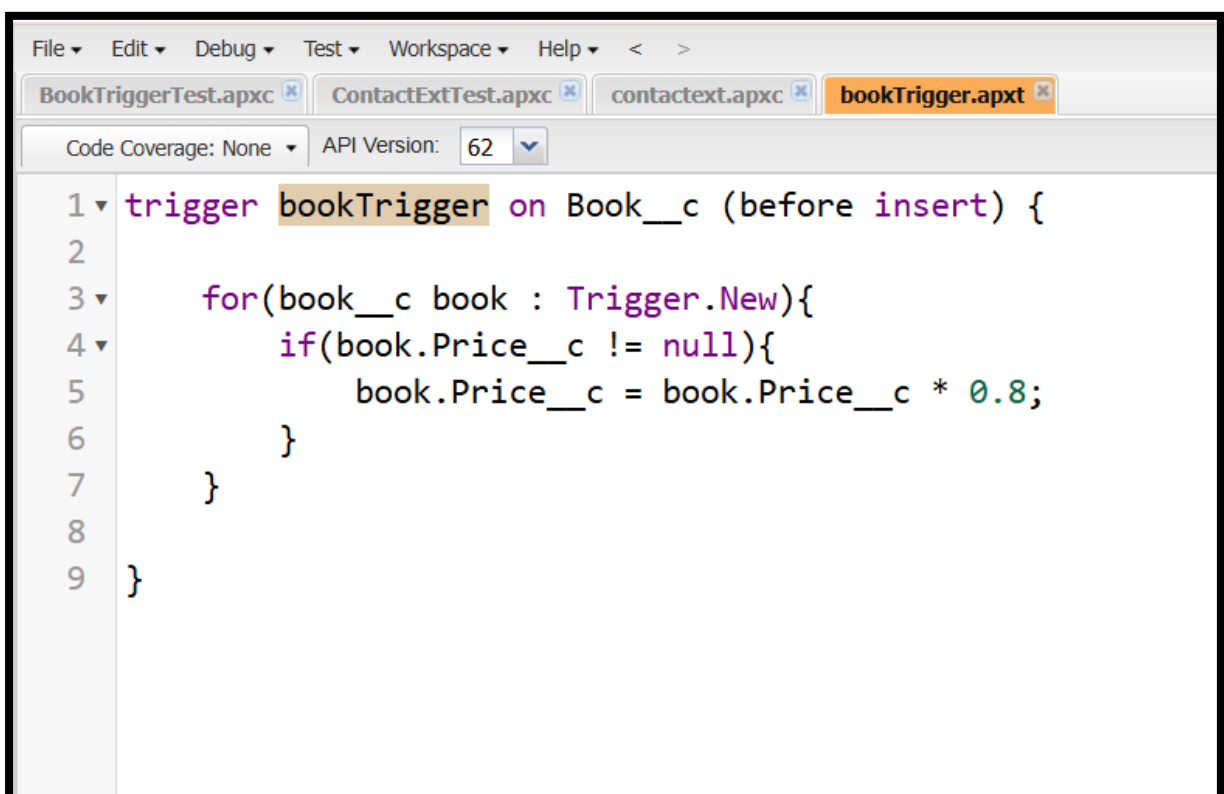
Problem Statement:

Given are few codes for which write the test cases and execute the same in your SFDC platform

Tasks to be Done:

- A. Write the Test Class for the following Trigger:

bookTrigger Trigger

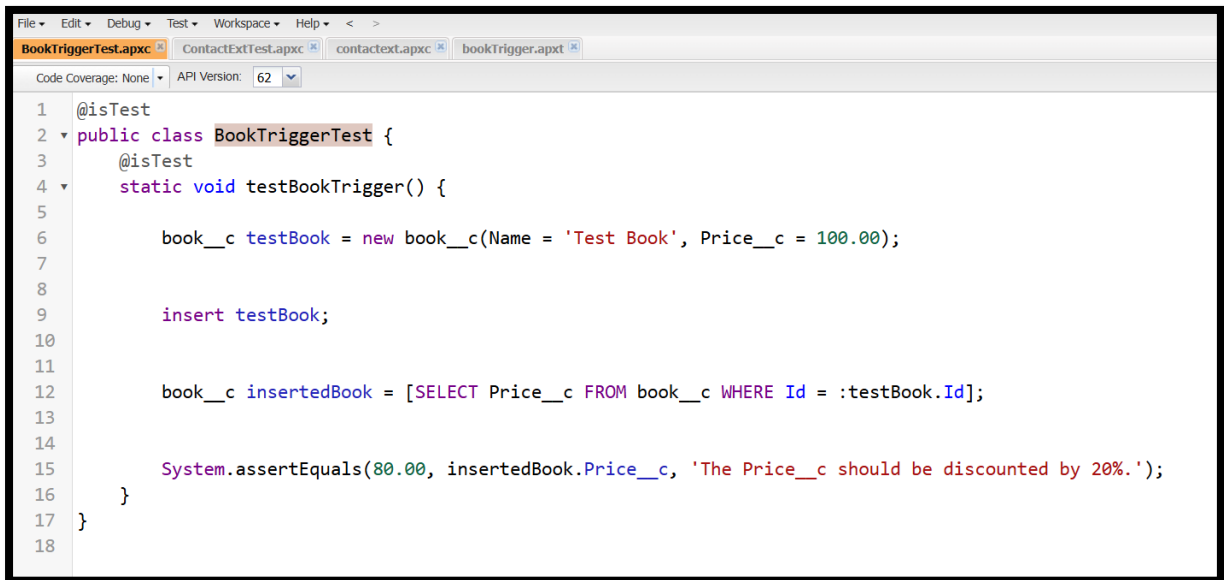


The screenshot shows an IDE window with the following elements:

- Menu bar: File, Edit, Debug, Test, Workspace, Help, with navigation arrows.
- Tab bar: Contains four tabs: BookTriggerTest.apxc, ContactExtTest.apxc, contacttext.apxc, and bookTrigger.apxt (which is the active tab).
- Toolbar: Shows 'Code Coverage: None' and 'API Version: 62'.
- Code editor: Displays the following Apex trigger code:

```
1 trigger bookTrigger on Book__c (before insert) {  
2  
3     for(book__c book : Trigger.New){  
4         if(book.Price__c != null){  
5             book.Price__c = book.Price__c * 0.8;  
6         }  
7     }  
8  
9 }
```

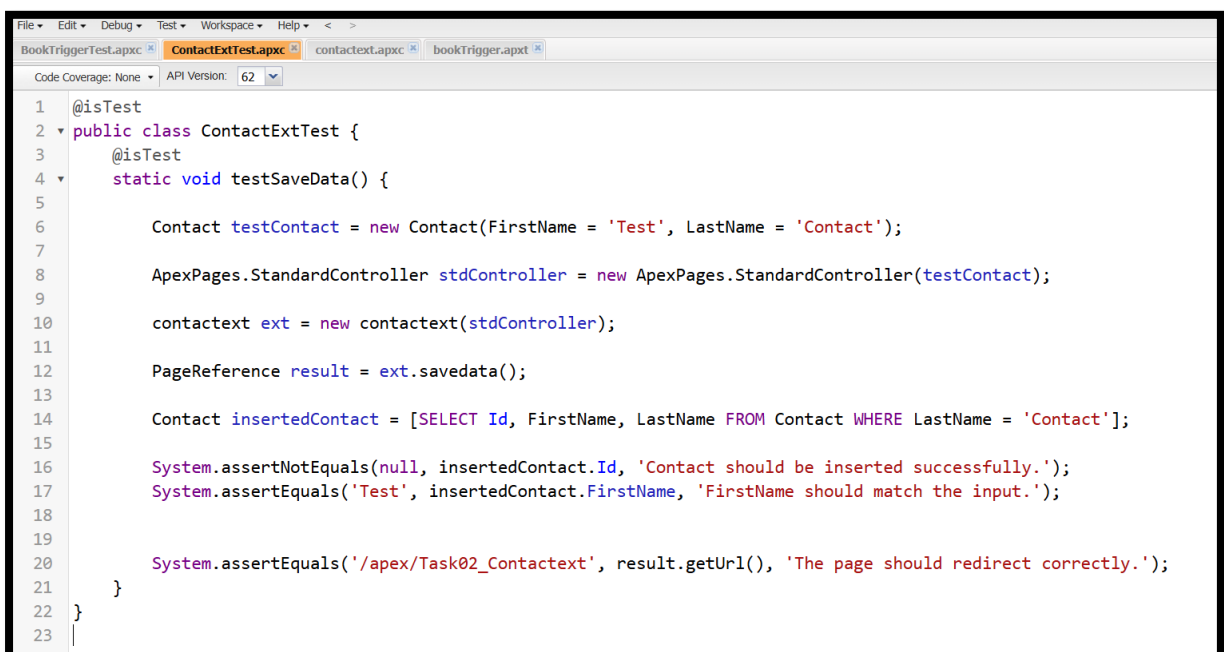
Test Class for booktrigger name (BookTriggerTest)



```
File Edit Debug Test Workspace Help < >
BookTriggerTest.apxc ContactExtTest.apxc contacttext.apxc bookTrigger.apxt
Code Coverage: None API Version: 62
1 @isTest
2 public class BookTriggerTest {
3     @isTest
4     static void testBookTrigger() {
5
6         book__c testBook = new book__c(Name = 'Test Book', Price__c = 100.00);
7
8
9         insert testBook;
10
11
12         book__c insertedBook = [SELECT Price__c FROM book__c WHERE Id = :testBook.Id];
13
14
15         System.assertEquals(80.00, insertedBook.Price__c, 'The Price__c should be discounted by 20%.');
16     }
17 }
18
```

B. Write the Test Class for the following Extension:

ContactExtTest Class:



```
File Edit Debug Test Workspace Help < >
BookTriggerTest.apxc ContactExtTest.apxc contacttext.apxc bookTrigger.apxt
Code Coverage: None API Version: 62
1 @isTest
2 public class ContactExtTest {
3     @isTest
4     static void testSaveData() {
5
6         Contact testContact = new Contact(FirstName = 'Test', LastName = 'Contact');
7
8         ApexPages.StandardController stdController = new ApexPages.StandardController(testContact);
9
10        contacttext ext = new contacttext(stdController);
11
12        PageReference result = ext.savedata();
13
14        Contact insertedContact = [SELECT Id, FirstName, LastName FROM Contact WHERE LastName = 'Contact'];
15
16        System.assertNotEquals(null, insertedContact.Id, 'Contact should be inserted successfully. ');
17        System.assertEquals('Test', insertedContact.FirstName, 'FirstName should match the input. ');
18
19
20        System.assertEquals('/apex/Task02_Contacttext', result.getUrl(), 'The page should redirect correctly. ');
21    }
22 }
23
```

Contacttext Class:

```
BookTriggerTest.apxc | ContactExtTest.apxc | contacttext.apxc | bookTrigger.apxt |
Code Coverage: None | API Version: 62 |
1 public with sharing class contacttext {
2     public Contact con;
3
4     public contacttext(ApexPages.StandardController std) {
5         con = (Contact) std.getRecord();
6     }
7
8     public PageReference savedata() {
9         try {
10             insert con;
11             ApexPages.addMessage(new ApexPages.Message(ApexPages.Severity.CONFIRM, 'Contact Saved'));
12         } catch (Exception e) {
13             ApexPages.addMessages(e);
14         }
15         PageReference pg = Page.Task02_Contacttext;
16         pg.setRedirect(true);
17         return pg;
18     }
19 }
20
```

Test trigger percentage

For booktriggerTest it is 100% code coverage

Tests						Overall Code Coverage	
Status	Test Run	Enqueued Time	Duration	Failures	Total	Class	Percent
✓	TestRun @ 3:48:04 pm			0	1	Class	
✗	TestRun @ 3:49:26 pm			1	1	ApexQueries1	0%
✗	TestRun @ 3:53:24 pm			1	1	ApexStatic	0%
✓	TestRun @ 3:53:31 pm			0	1	ApexStaticMethods	0%
✓	TestRun @ 4:12:33 pm			0	1	ApexVariable	0%
✗	TestRun @ 4:12:39 pm			1	1	bookTrigger	100%
						ChangeOwnerController	0%

For booktriggerTest it is 81% code coverage

```
10
11
12     book_c insertedBook = [SELECT Price__c FROM book__c WHERE Id = :testBook.Id];
13
14
15     System.assertEquals(80.00, insertedBook.Price__c, 'The Price__c should be discounted by 20%.');
16 }
17
```

Tests						Overall Code Coverage		
Status	Test Run	Enqueued Time	Duration	Failures	Total	Class	Percent	Lines
✓	TestRun @ 3:48:04 pm			0	1	Class		
✗	TestRun @ 3:49:26 pm			1	1	CommunitiesSelfRegController	0%	0/1
✗	TestRun @ 3:53:24 pm			1	1	CommunitiesSelfRegController	0%	0/42
✓	TestRun @ 3:53:31 pm			0	1	ContactController	0%	0/7
✓	TestRun @ 4:12:33 pm			0	1	contacttext	81%	9/11
✗	TestRun @ 4:12:39 pm			1	1	ContactSearch	0%	0/5
						ForgotPasswordController	0%	0/9
						LightningForgotPasswordController	0%	0/18
						LightningLoginFormController	0%	0/33
						LightningSelfRegisterController	0%	0/77

