

Creating an apex class consumer record:-

```
class ConsumerRecord {
    public static void sendEmailNotification (List<consumer__c> con){
        for(consumer__c c:con)
        {
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
            email.setToAddresses( new List<String>{c.email__c});
            email.setSubject('Welcome to our company');
            email.setPlainTextBody('Dear ' + ' ' + ',\n\nWelcome to MY RICE!'+ 'You have been seen
as a valuable customer to us. PLease continue your journey with us, while we try to provide you with
good quality resources.'+'\n'+
                "We are proud to associate with valuable customers like you and we look
forward to collaborating with you by providing more and more exciting discounts or even product
offers too." + '\n'
                + 'So why taking a step back, take a leap of faith and shop with us more,
while we provide with the valuable products and offers'+ '\n'+ '\n'+ '\n'+
                'Thankyou for buying ' + " " + 'Here are some of the products that are
brought by the customers who similarly bought products like this'+ '\n\n');
            Messaging.sendEmail(new List<Messaging.SingleEmailMessage>{email});

        }
    }
}
```

Creating an apex trigger:-

```
trigger consumerTrigger on consumer__c (After insert) {
    if(trigger.isAfter && trigger.isInsert) {
        ConsumerRecord.sendEmailNotification(trigger.new);
    }
}
```

```
1. Create an Apex trigger:
2. Name: AccountAddressTrigger
3. Object: Account
4.
5. SOURCE CODE:
6. trigger AccountAddressTrigger on Account (before insert, before update) {
7. for(Account a: Trigger.New){
8. if(a.Match_Billing_Address__c == true && a.BillingPostalCode!= null){
9. a.ShippingPostalCode=a.BillingPostalCode;
10. }
11. }
12. }
```

```
1. Name: TestVerifyDate
2.
3. @isTest
4. public class TestVerifyDate
5. {
6. static testMethod void testMethod1()
7. {
```

```
8. Date d = VerifyDate.CheckDates(System.today(),System.today()+1);
9. Date d1 = VerifyDate.CheckDates(System.today(),System.today()+60);
10.    } }
```

```
1. Create an Apex trigger:
2. Name: ClosedOpportunityTrigger
3. Object: Opportunity
4.
5. SOURCE CODE:
6. trigger ClosedOpportunityTrigger on Opportunity (after insert, after update) {
7. List<Task> taskList = new List<Task>();
8. for(Opportunity opp : [SELECT Id, StageName FROM Opportunity WHERE StageName='Closed
   Won' AND Id IN : Trigger.New]){
9. taskList.add(new Task(Subject='Follow Up Test Task', WhatId = opp.Id));
10. }
11. if(taskList.size()>0){
12. insert tasklist;
13.    } }
```

```
14.
15. SOURCE CODE: AnimalLocator
16.
17. public class AnimalLocator {
18. public static String getAnimalNameById (Integer id) {
19. String AnimalName = '';
20. Http http = new Http();
21. HttpRequest request = new HttpRequest();
22. request.setEndpoint('https://th-apex-http-callout.herokuapp.com/animals/'+id);
23. request.setMethod('GET');
24. HttpResponse response = http.send(request);
25. if (response.getStatusCode() == 200) {
26. Map<String, Object> results = (Map<String, Object>)
   JSON.deserializeUntyped(response.getBody());
27. Map<String, Object> animal = (Map<String, Object>) results.get('animal');
28. animalName = (String) animal.get('name');
29. }
30. return animalName;
31. } }
```

```
32.
33. -----
34. SOURCE CODE: AnimalLocatorTest
35.
36. @isTest
37. private class AnimalLocatorTest {
38. @isTest static void testGet() {
39. Test.setMock(HttpCalloutMock.class, new AnimalLocatorMock());
40. // Call method to test
41. String result = AnimalLocator.getAnimalNameById (7);
42. // Verify mock response is not null
43. System.assertNotEquals(null,result,
44. 'The callout returned a null response.');
```

```
45. System.assertEquals('dog', result,
46. 'The animal name should be \'dog\');
47. } }
48.
49. -----
50. SOURCE CODE: AnimalLocatorMock
51.
52. @isTest
53. global class AnimalLocatorMock implements HttpCalloutMock{
54.
```

```

55. // Implement this interface method
56. global HTTPResponse respond(HTTPRequest request) {
57. // Create a fake response
58. HTTPResponse response = new HTTPResponse();
59. response.setHeader('Content-Type', 'application/json');
60. response.setBody('{"animal":{"id":7,"name":"dog","eats":"meat","says":"i am a lovely
    pet animal"}}');
61. response.setStatusCode(200);
62. return response;
63. } }
64.
65. Apex SOAP Callouts from (module - Apex Integration Services)
66.
67.
68. Remote Site URL : https://th-apex-soap-service.herokuapp.com
69. -----
70. SOURCE CODE: ParkLocator
71.
72. public class ParkLocator {
73. public static string[] country(string theCountry) {
74. ParkService.ParksImplPort parkSvc = new ParkService.ParksImplPort();
75. return parkSvc.byCountry(theCountry);
76. } }
77.
78. -----
79. SOURCE CODE: ParkLocatorTest
80. @isTest
81. private class ParkLocatorTest {
82. @isTest static void testCallout() {
83. Test.setMock(WebServiceMock.class, new ParkServiceMock ());
84. String country = 'United States';
85. List<String> result = ParkLocator.country(country);
86. List<String> parks = new List<String>{'Kaziranga National Park', 'Gir National Park',
    'Deer Park'};
87. System.assertEquals(parks, result);
88. } }
89.
90. -----
91. SOURCE CODE: ParkServiceMock
92. @isTest
93. global class ParkServiceMock implements WebserviceMock {
94. global void doInvoke(
95. Object stub,
96. Object request,
97. Map<String, Object> response,
98. String endpoint,
99. String soapAction,
100. String requestName,
101. String responseNS,
102. String responseName,
103. String responseType) {
104. // start - specify the response you want to send
105. ParkService.byCountryResponse response_x = new ParkService.byCountryResponse();
106. response_x.return_x = new List<String>{'Kaziranga National Park', 'Gir National
    Park', 'Deer Park'};
107. // end
108. response.put('response_x', response_x);
109. } }
110. Apex Web Services from (module - Apex Integration Services)
111.
112. -----

```

```

113. SOURCE CODE: AccountManager
114. @RestResource(urlMapping='/Accounts/*/contacts')
115. global class AccountManager {
116.     @HttpGet
117.     global static Account getAccount() {
118.         RestRequest req = RestContext.request;
119.         String accId = req.requestURI.substringBetween('Accounts/', '/contacts');
120.         Account acc = [SELECT Id, Name, (SELECT Id, Name FROM Contacts)
121.         FROM Account WHERE Id = :accId];
122.         return acc;
123.     }
124. }
125.
126. -----
127. SOURCE CODE: AccountManagerTest
128. @isTest
129. private class AccountManagerTest {
130.     private static testMethod void getAccountTest1() {
131.         Id recordId = createTestRecord();
132.         // Set up a test request
133.         RestRequest request = new RestRequest();
134.         request.requestUri = 'https://na1.salesforce.com/services/apexrest/Accounts/'+
            recordId + '/contacts' ;
135.         request.httpMethod = 'GET';
136.         RestContext.request = request;
137.         // Call the method to test
138.         Account thisAccount = AccountManager.getAccount();
139.         // Verify results
140.         System.assert(thisAccount != null);
141.         System.assertEquals('Test record', thisAccount.Name);
142.
143.     }
144.     // Helper method
145.     static Id createTestRecord() {
146.         // Create test record
147.         Account TestAcc = new Account(
148.             Name='Test record');
149.         insert TestAcc; Contact TestCon= new Contact(
150.             LastName='Test',
151.             AccountId = TestAcc.id);
152.         return TestAcc.Id;
153.     }}

```

```

1. SOURCE CODE: DisplayImage(Visualforce page)
2.
3. <apex:page showHeader="false" sidebar="false">
4. <apex:image url="https://developer.salesforce.com/files/salesforce-developer-network-
    logo.png"/>
5. </apex:page>

```