

```

1  $document.ready( function() {
2      ...
3      $( ".merchandise").click(addToCart);
4      $( "#shopCart").click(viewCart);
5  });
6
7  function addToCart() {
8      var coupElem= $("#couponButt");
9      selItem= getItemInfo($(this));
10     for(var i=0; i<availItems.length; i++){
11         if(availItems[i].name == selItem.name){
12             availItems[i].count -= selItem.quantity;
13         }
14         var price= selItem.price * selItem.quantity;
15         if(!coupon.expired){
16             coupElem.removeClass(customer.couponStatus);
17             customer.couponStatus= coupon.Id + '-' + 'used';
18             price -= coupElem.data('value');
19             coupElem.addClass(customer.couponStatus);
20             coupon.expired=true;
21         }
22         customer.payable += price;
23     }
24
25     function viewCart(){
26         ...
27         if($("#couponButt").attr("class") == 'default' && customer.payable==0)
28             showMsg('Shopping cart is empty');
29         else
30             $("div.shopContainer").append("<p> + \"Total purchase is: $\" +
31             customer.payable + "</p>");
31     }

```

(a)

```

1  @Test
2  public void testCase1(){
3      Select quantity = new Select(driver.findElement(By.
4          id("quantityDropDown")));
5      quantity.selectByIndex(1);
6      WebElement item = driver.findElements(By.css("merchandise"));
7      item.click();
8      WebElement cart = driver.findElements(By.id("shopCart"));
9      cart.click();
10     String expectedMsg = "Total purchase is: $70";
11     String msg=driver.findElements(By.cssSelector
12         ("div.shopContainer")).getText();
13     assertEquals(msg, expectedMsg);
14 }

```

(b)