

```

1  $document.ready(function() {
2    ...
3  $( ".merchandise").click(addToCart);
4  $( "#shopCart").click(viewCart);
5  });
6
7  function addToCart() {
8    var coupElem= $("#couponButt");
9    selItem= getItemInfo($(".merchandise"));
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)