

Exercise04Test.java

```

1 package exercise_04;
2
3 import static org.junit.Assert.*;
4
5 @RunWith(JUnit4.class)
6 public class Exercise04Test {
7
8     Exercise04 prb4;
9     ServerData mockobj;
10
11     @Before
12     public void setUp() throws Exception {
13         prb4 = new Exercise04();
14         mockobj = Mockito.mock(ServerData.class);
15     }
16
17     @Parameters({"src/exercise_04/exercise_04.csv"})
18     @Test
19     public void test04(int testCaseNumber, double total, boolean existingMember, boolean validDiscount,
20                     boolean validCoupon, double expected_discount, String BasisPath, String MDC) {
21         Mockito.when(mockobj.getBasisPath()).thenReturn(BasisPath);
22         Mockito.when(mockobj.getMDC()).thenReturn(MDC);
23         double actual_discount = prb4.calcTotal(mockobj, existingMember, validDiscount, validCoupon);
24         assertEquals("Expected discount is not equal to actual discount", expected_discount, actual_discount, 0.01);
25     }
26 }

```

Exercise04Test (Sep 12, 2020 11:45:57 PM)

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
Exercise_04	100.0 %	90	0	90
src	100.0 %	90	0	90
exercise_04	100.0 %	90	0	90
Exercise04.java	100.0 %	43	0	43
Exercise04Test.java	100.0 %	43	0	43
Exercise04Test	100.0 %	43	0	43

Exercise04.java

```

1 package exercise_04;
2
3 public class Exercise04 {
4
5     public double calcTotal(ServerData data, boolean existingMember, boolean validDiscount, boolean validCoupon) {
6
7         double discount = 0.0;
8
9         if (existingMember && validDiscount && validCoupon) {
10             if (total > 1000.0) {
11                 discount = 0.15;
12             } else if (total > 750) {
13                 discount = 0.1;
14             } else if (total > 500) {
15                 discount = 0.05;
16             } else {
17                 discount = 0.0;
18             }
19         }
20         return total * (1 - discount);
21     }
22 }

```

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