JUnit Test in Java

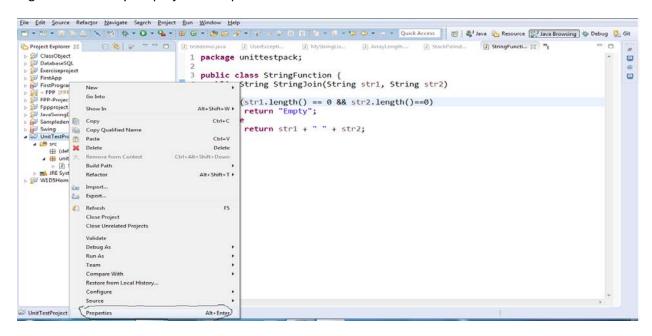
```
// StringFunction.java with two methods
public class StringFunction {
 public String StringJoin(String str1, String str2)
 {
     if (str1.length() == 0 && str2.length()==0)
          return "Empty";
     else
          return str1 + str2;
 }
 public int Multiply(int x, int y){
 return(x * y);
// RecSum.java
public class RecSum {
    public static void main(String[] args) {
         // if your input is 5 ==> 1+2+3+4+5
         Scanner in = new Scanner(System.in);
         System.out.print("Type a Number: ");
         int n = in.nextInt();
         RecSum r1 = new RecSum();
         System.out.println("Sum = " + r1.Sum(n));
    public int Sum(int n)
         if (n == 1)
                               //base case
              return 1;
         else
              return Sum(n-1) + n; //general case
    }
}
```

```
// Test Case
import static org.junit.Assert.*;
import org.junit.Test;
public class StringFunctionTest {
    @Test
    public void test() {
         StringFunction sf = new StringFunction();
         String Ooutput = sf.StringJoin("Renuka",
"Mohanraj");
         String Eoutput = "RenukaMohanra";
         assertEquals(Ooutput, Eoutput);
    }
    @Test
    public void test2()
    {
         StringFunction sf = new StringFunction();
         int ao =sf.Multiply(10, 20);
         int eo = 200;
         assertEquals(ao,eo);
    }
    @Test
    public void test3(){
         RecSum rs = new RecSum();
         int eo = 10;
         int op = rs.Sum(4);
         assertEquals(eo,op);
    }
}
```

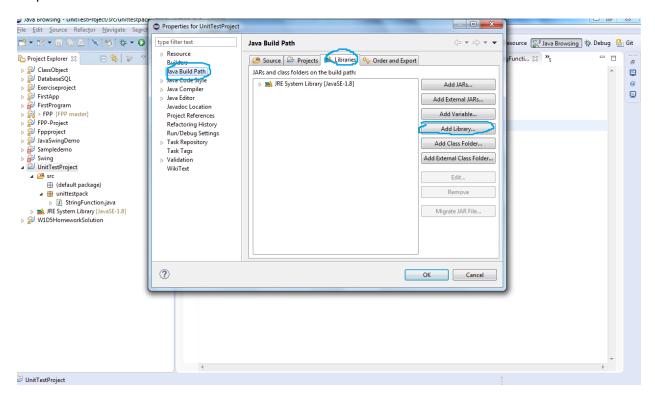
To run the above code follow to perform JUnit test follow the steps given below

Step 1:

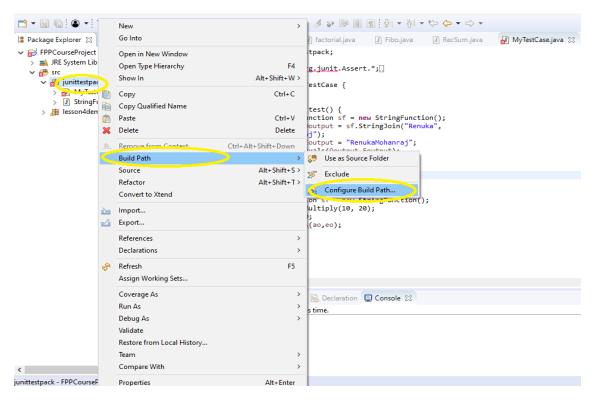
Right click on the your project -> Properties



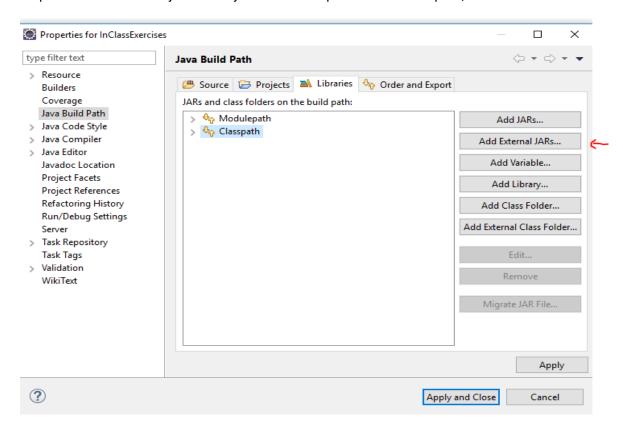
Step 2:



Step 1 and Step 2 does not work, follow the highlighted options from the below screenshot.

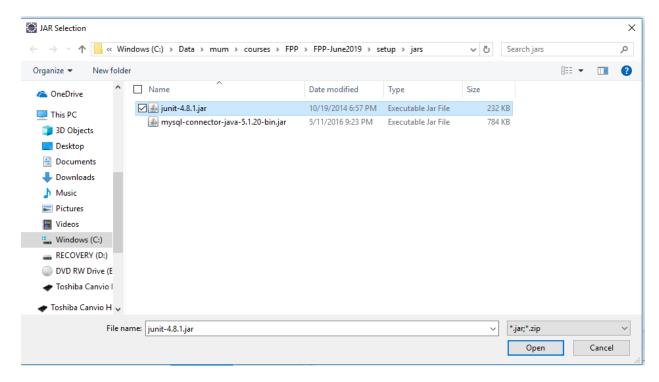


Step 3: You need to add junit-4.8.1.jar to the "classpath". select Classpath, and click Add External Jars...

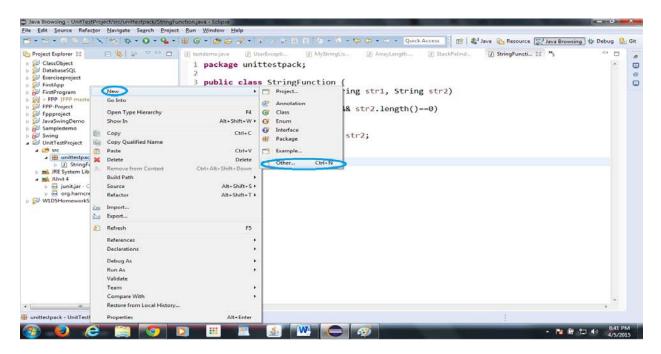


Step:4

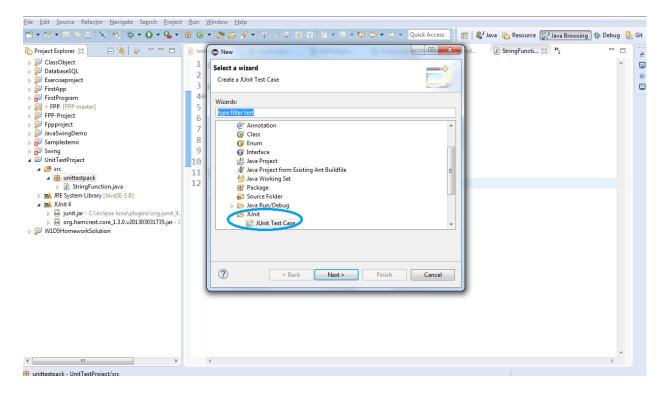
• Download the Junit jar file from Resources/DemoCode/lesson4/ junit-4.8.1.jar. Navigate the junit-4.8.1.jar path from your pc, then click open.



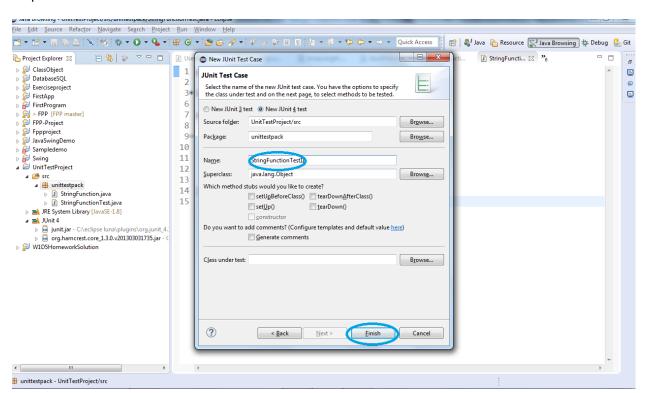
Step 5: Right click on your project, select New \rightarrow Junit Test Case. If you not found click New \rightarrow other \rightarrow Junit Test Case.



Step 6:



Step 7



Step 8: Write the test case

