

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);
    }

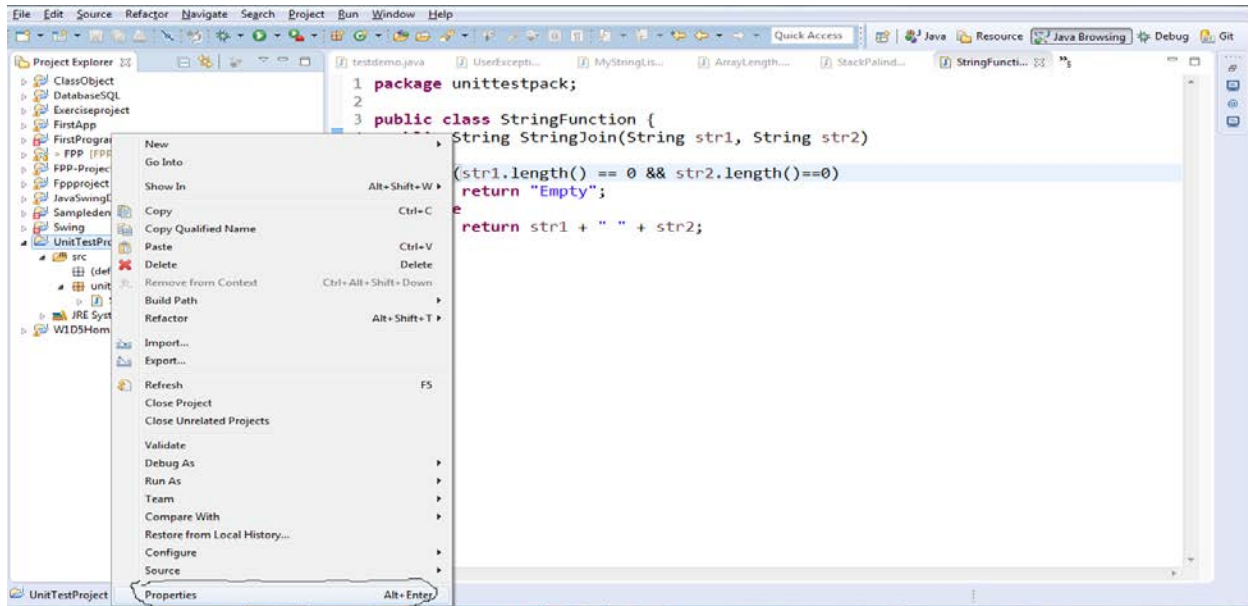
    @Test
    public void test3(){
        RecSum rs = new RecSum();
        int eo = 10;
        int op = rs.Sum(4);
        assertEquals(eo,op);
    }
}

```

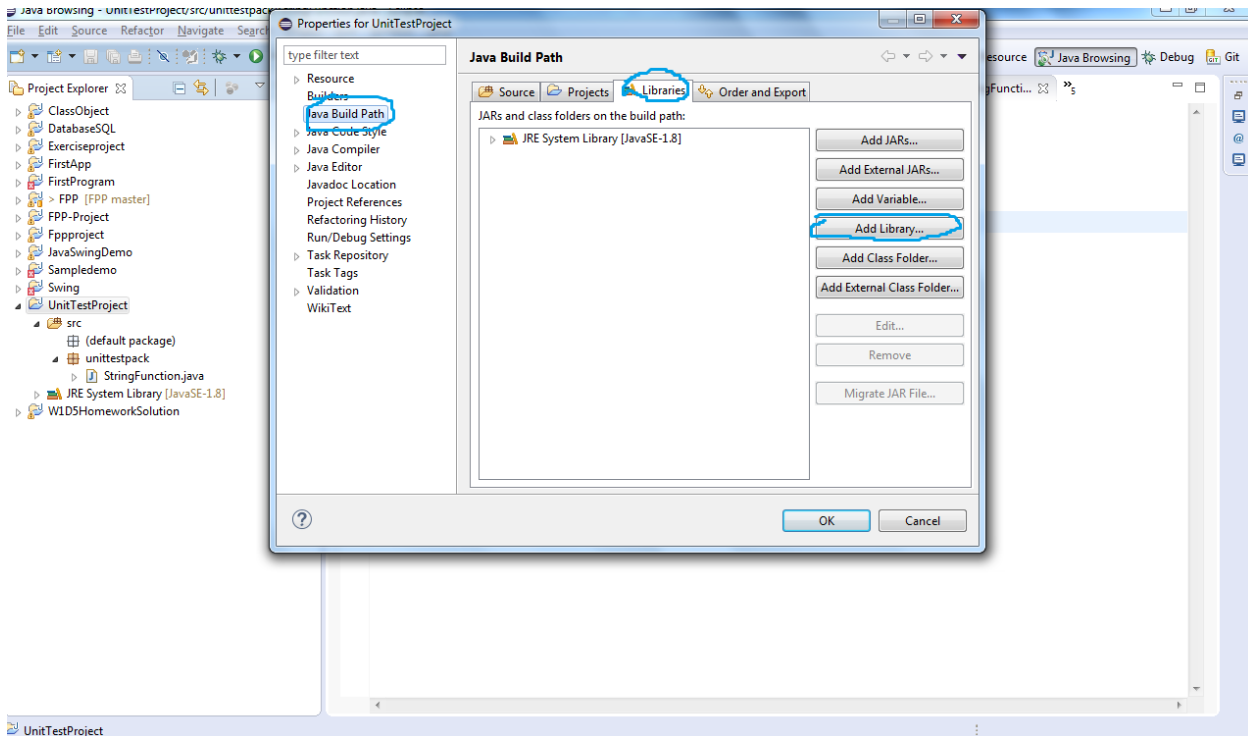
To run the above code follow to perform JUnit test follow the steps given below

Step 1:

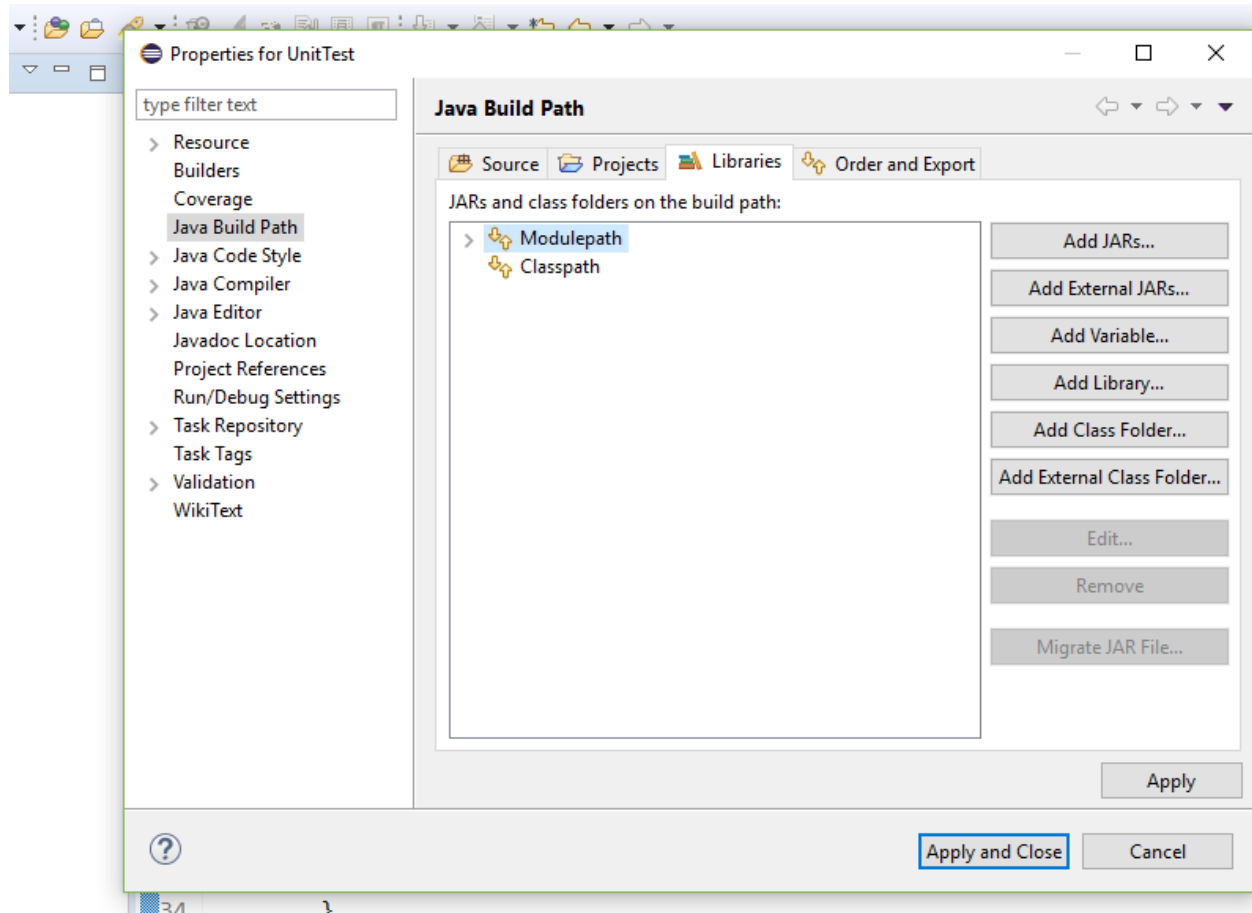
Right click on the your project ->Properties



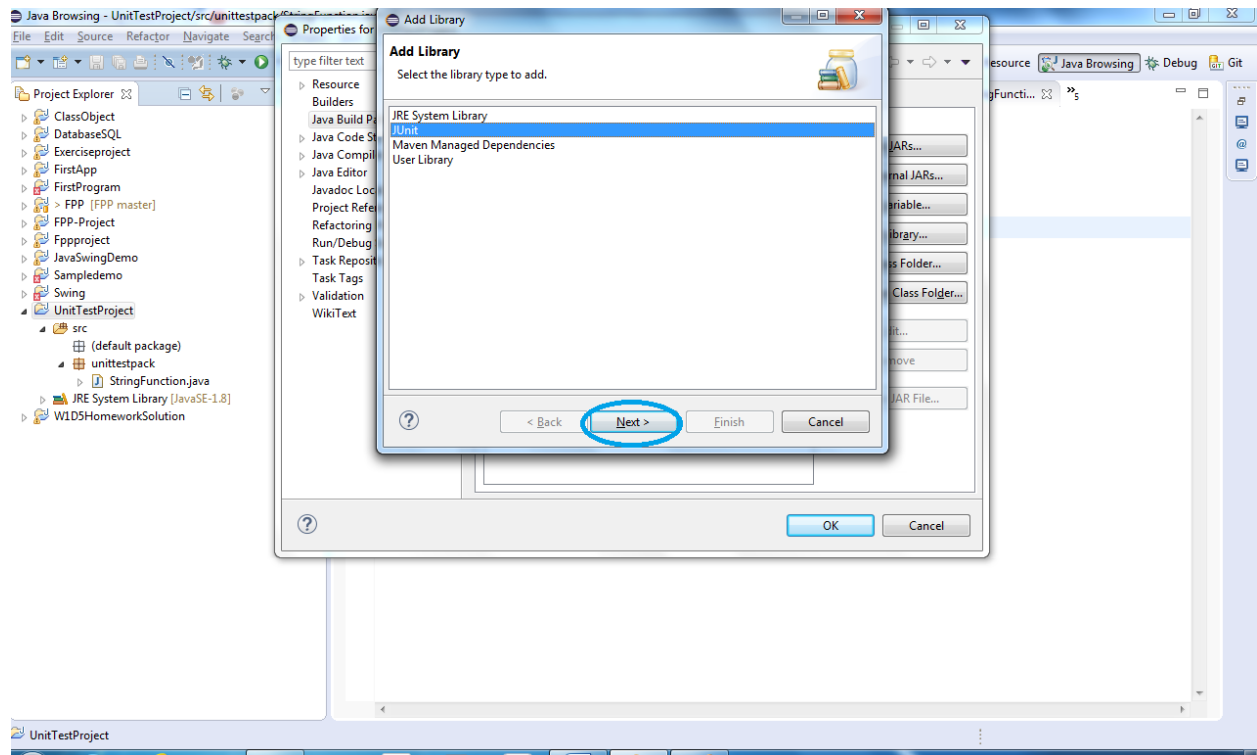
Step 2 :



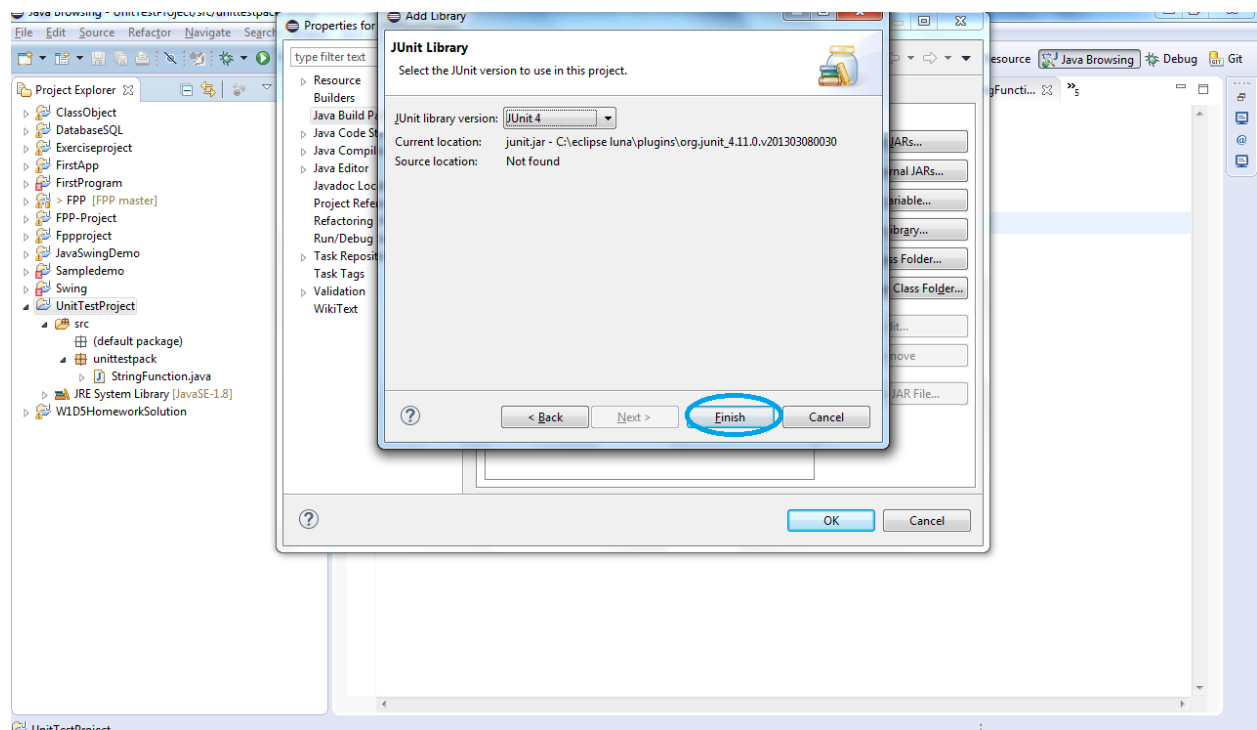
If you are using Java 10, follow the below screen (optional step if you don't have Java 10). Click the Modulepath to Enable Add Library Button



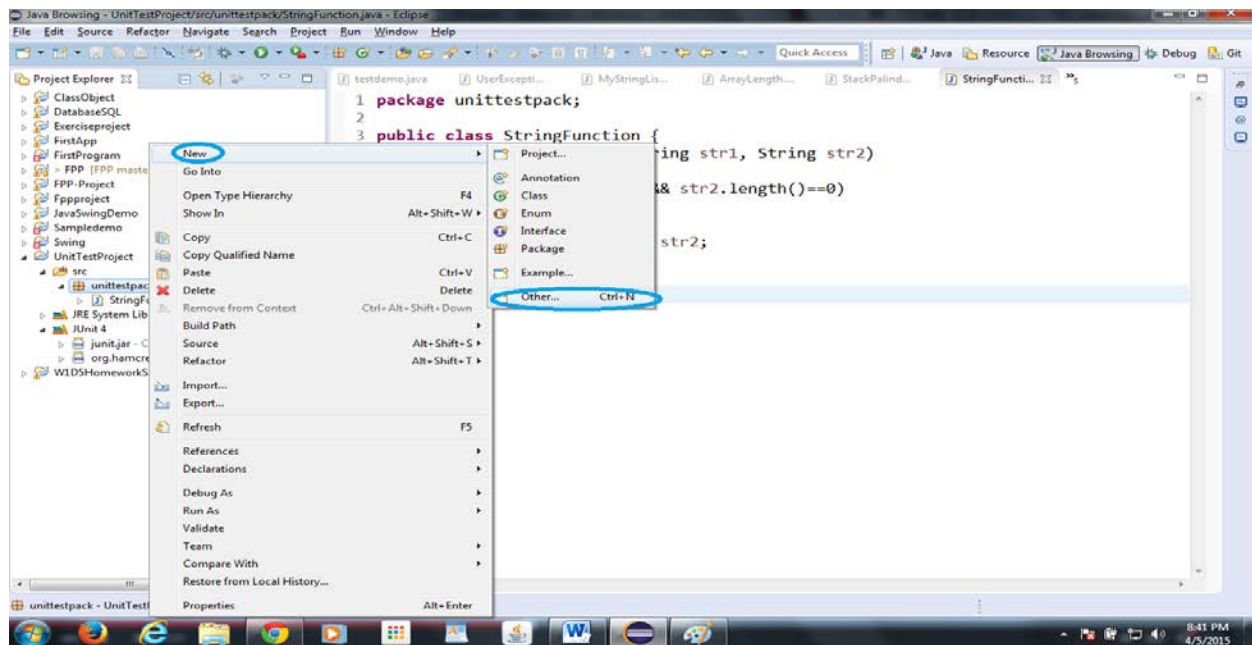
Step : 3



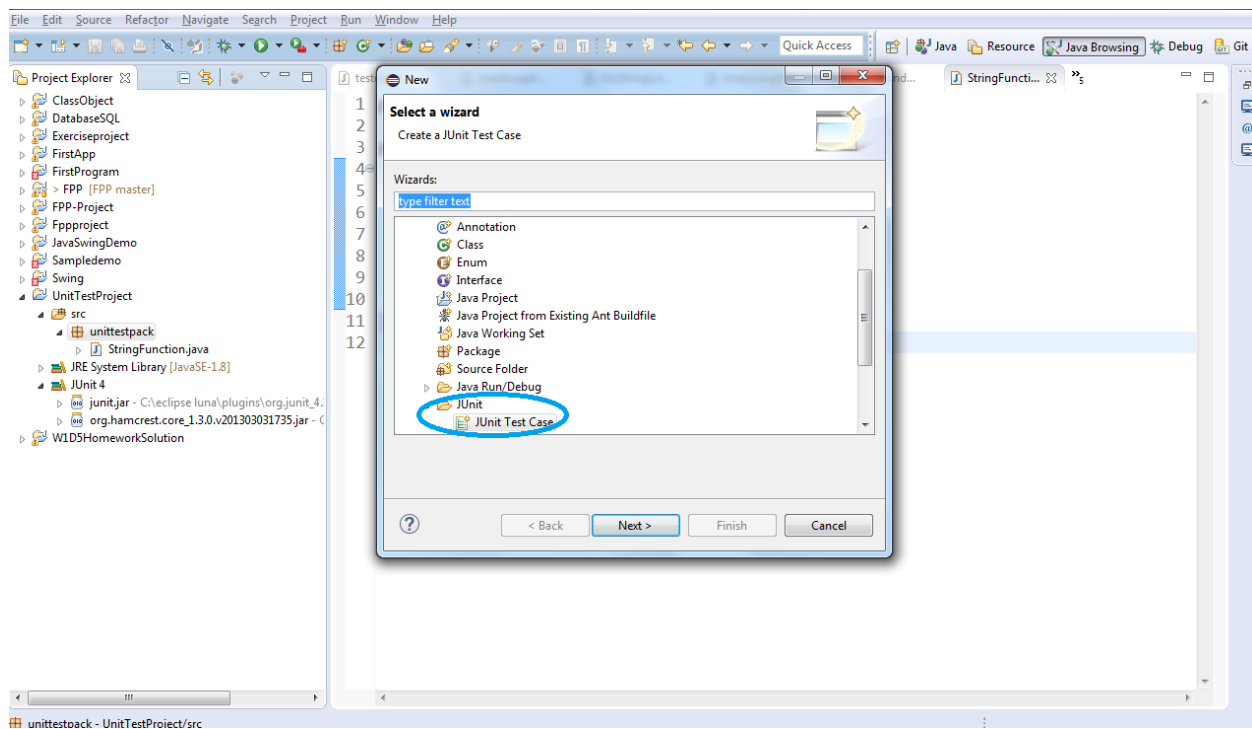
Step 4:



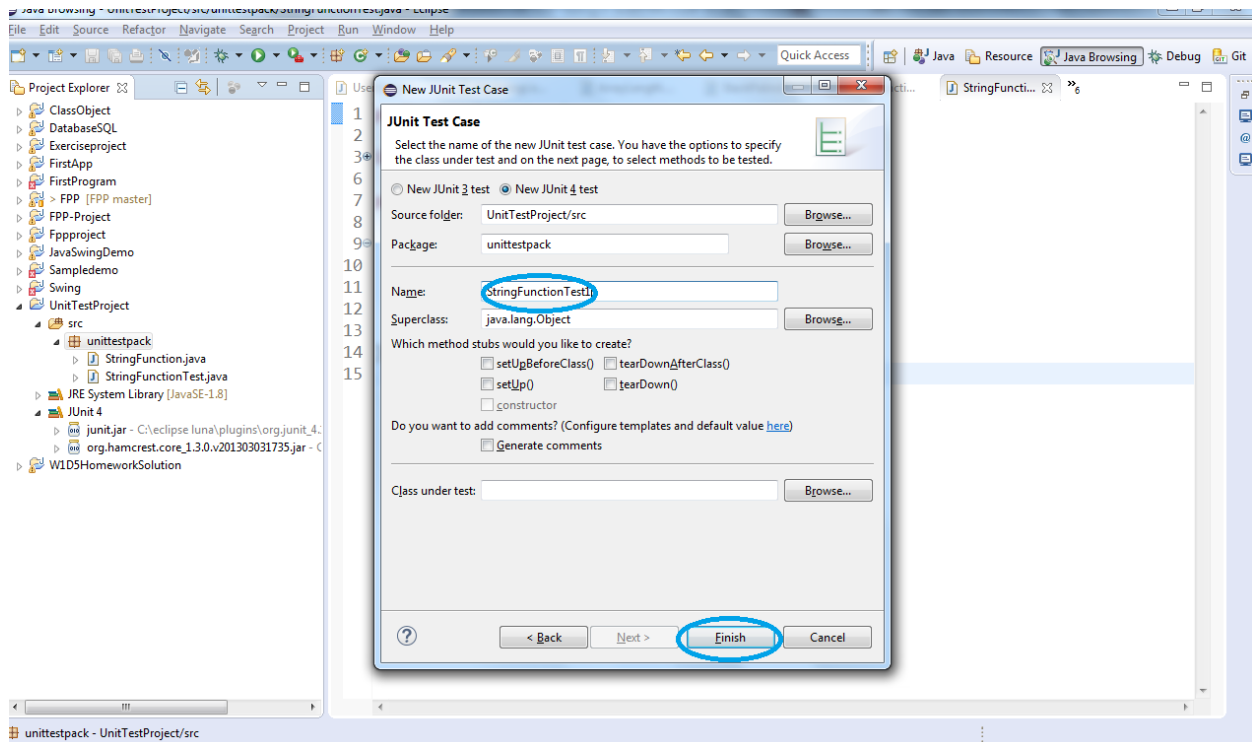
Step 5:



Step 6:



Step 7



Step 8: Write the test case

