

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);  
    }  
}
```

// 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;
```

```

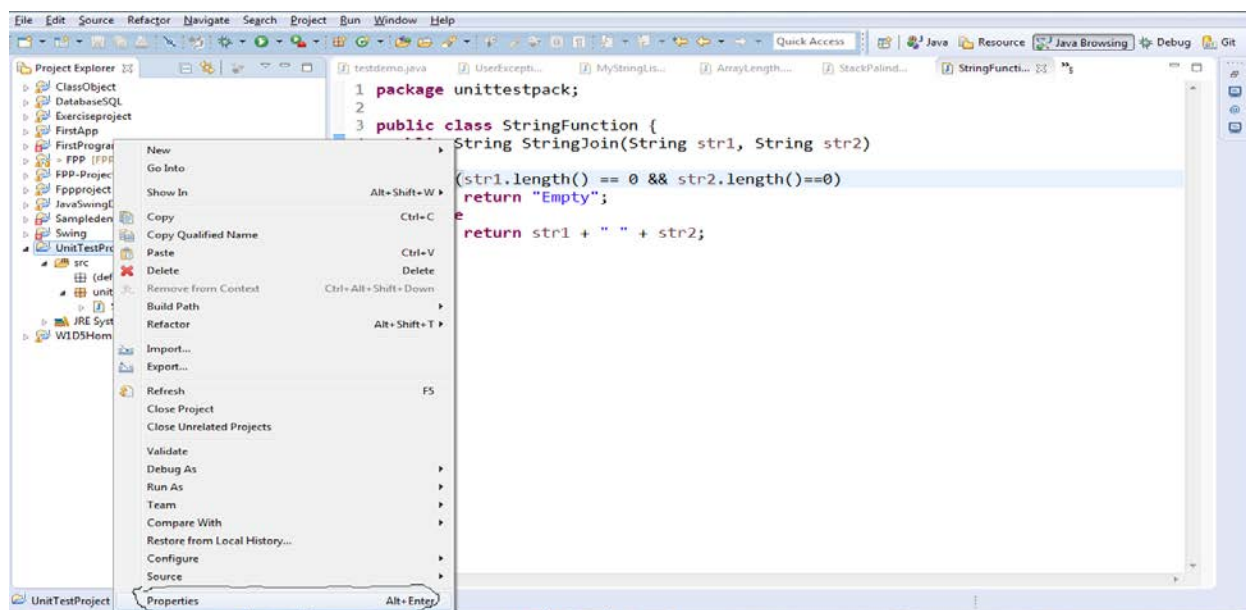
        assertEquals(ao, eo);
    }
}

```

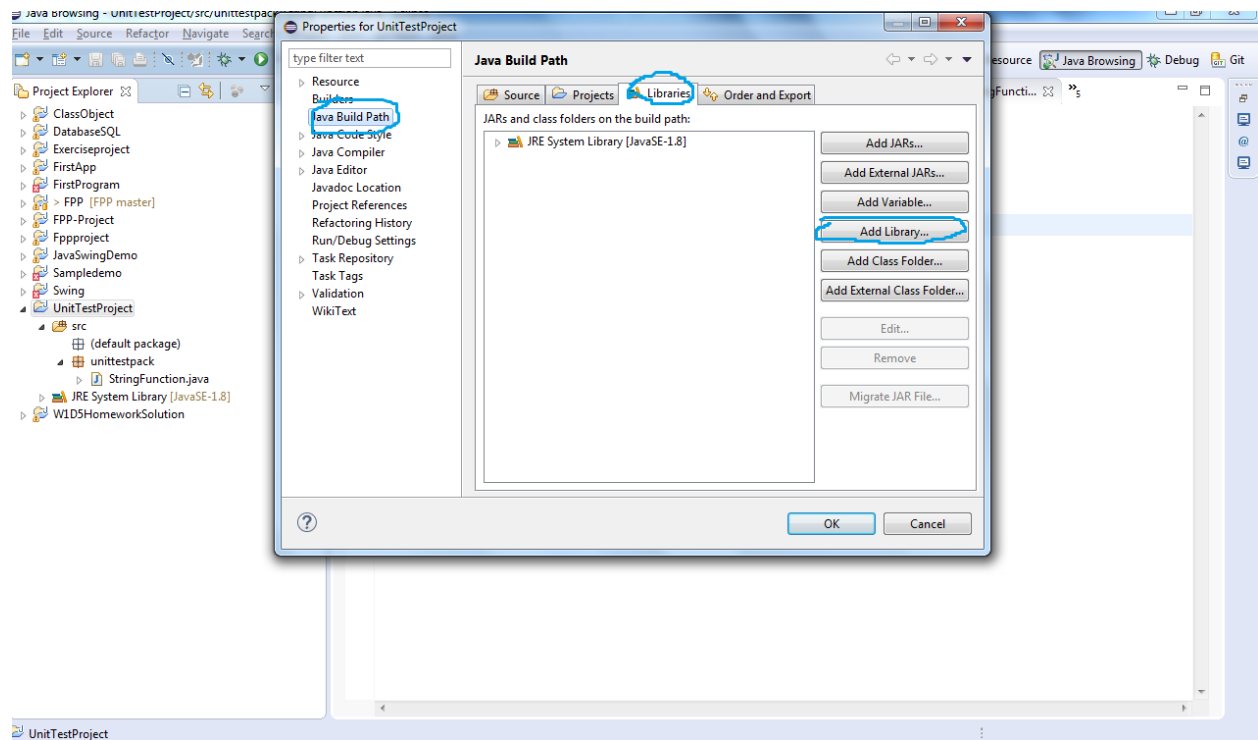
To run the above code follow to perform JUnit test follow the steps given below

Step 1:

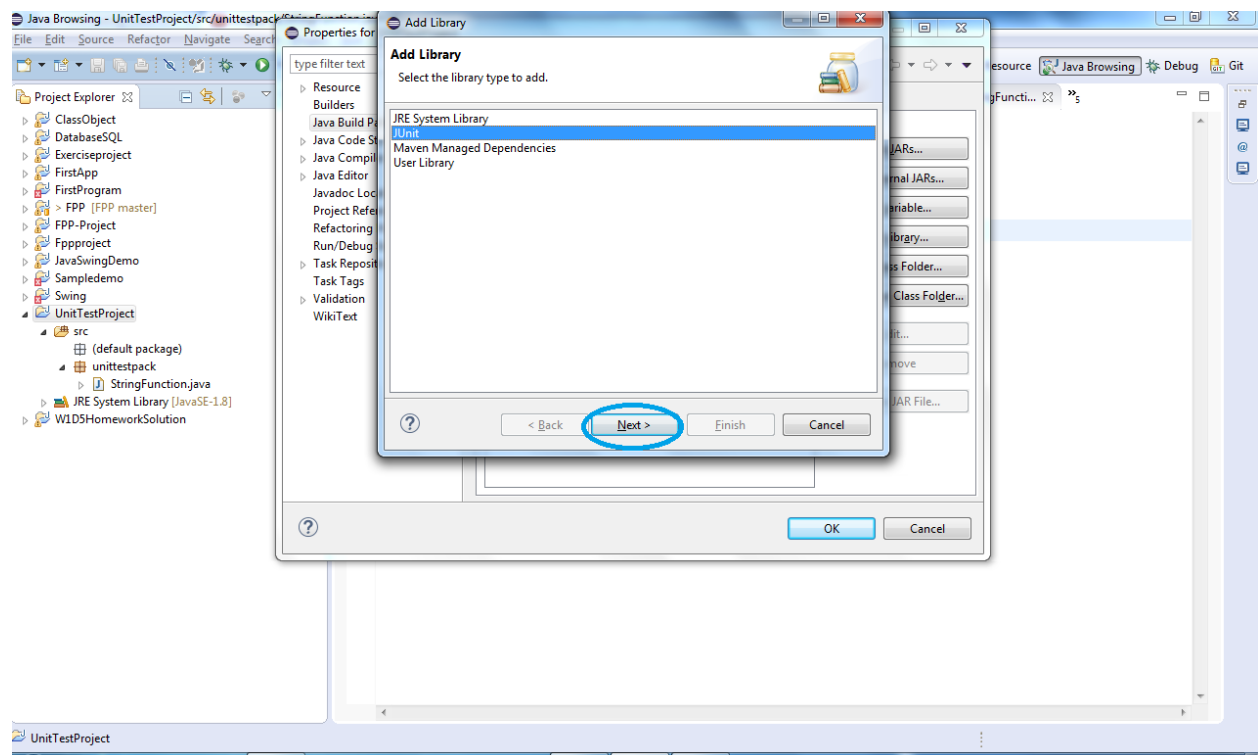
Right click on the your project ->Properties



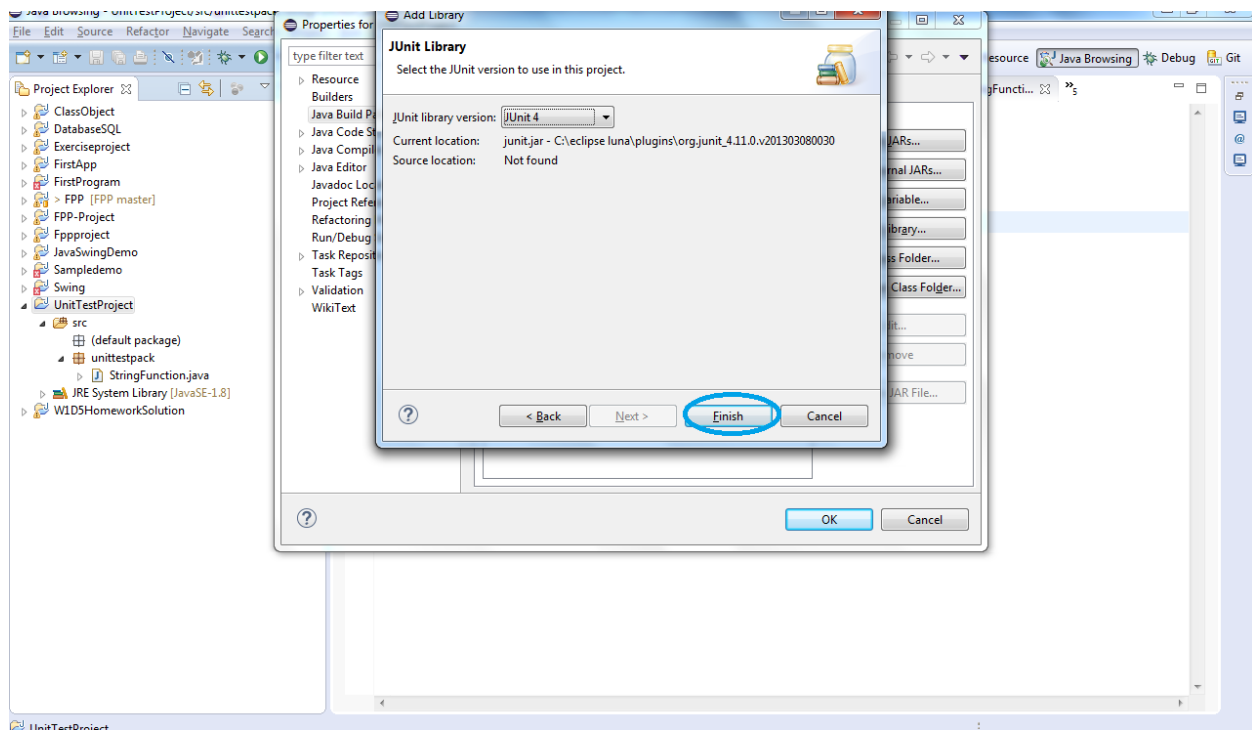
Step 2 :



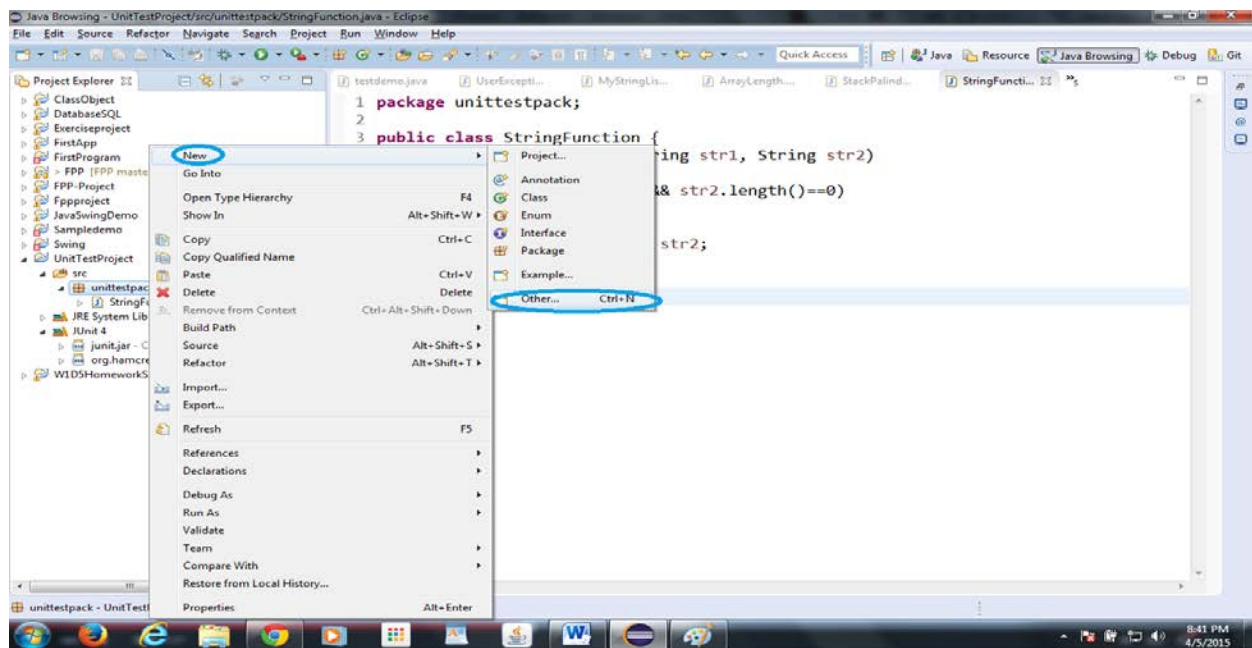
Step : 3



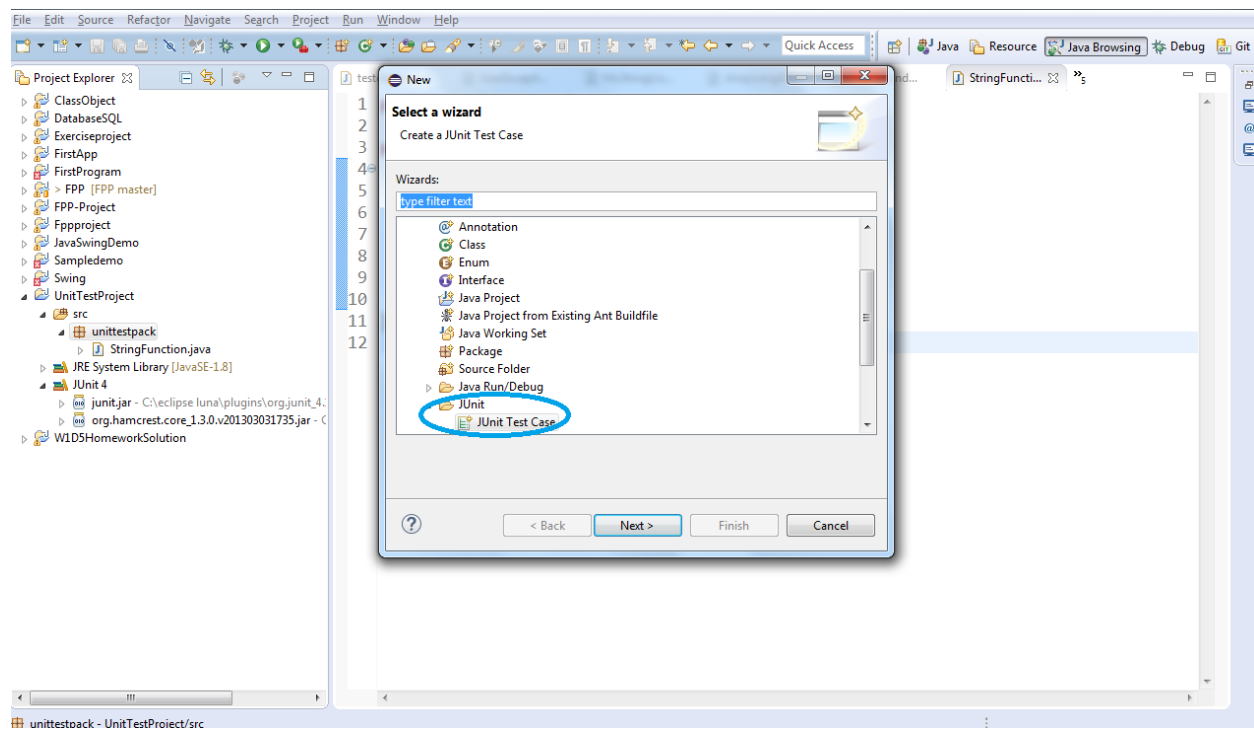
Step 4:



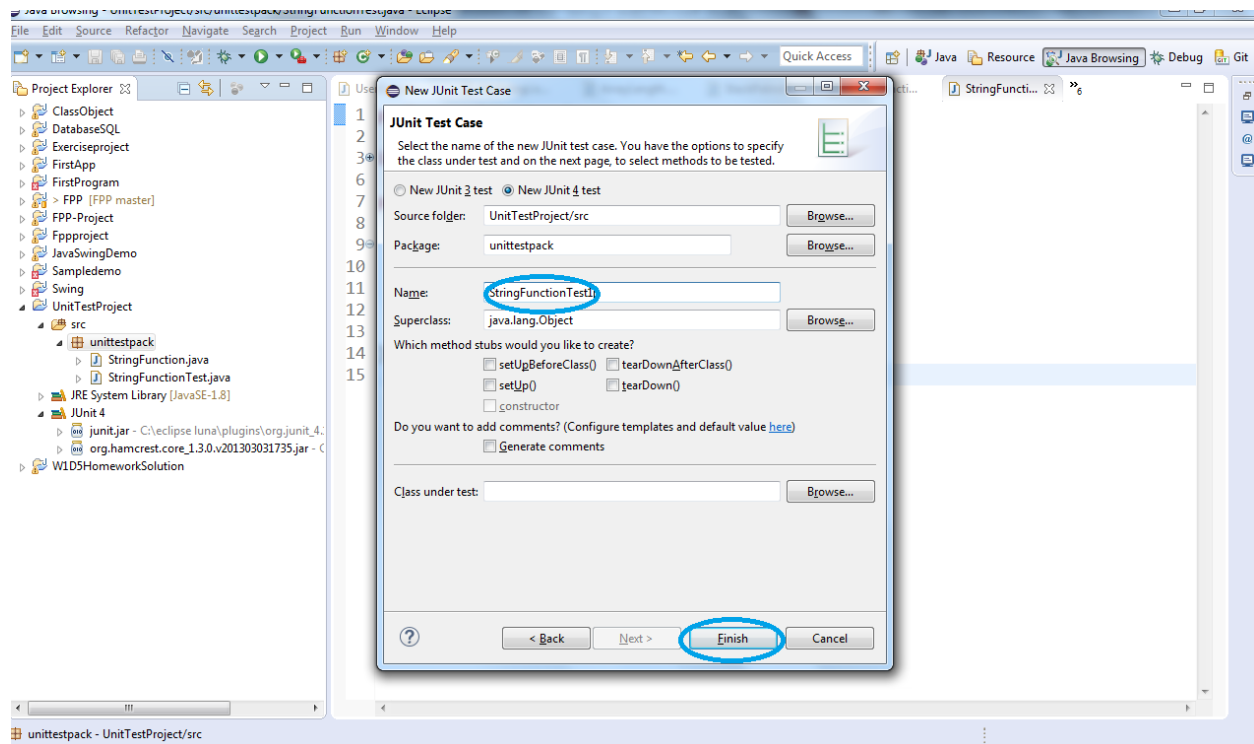
Step 5:



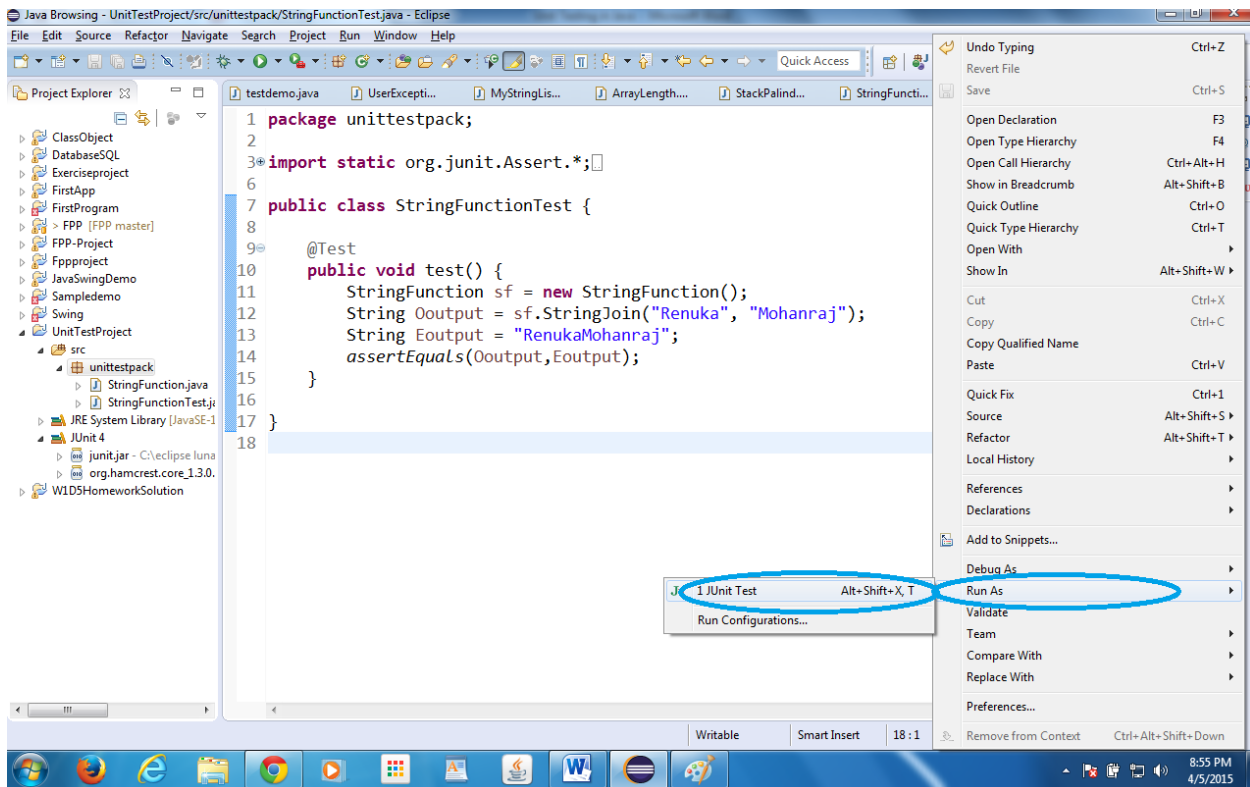
Step 6:



Step 7



Step 8: Write the test case



Assertions

To enable assertions in eclipse go to Window->Preferences -> Java -> Installed JREs -> then selecting our installed JRE and -> Edit and set Default VM arguments with `-ea` and click on finish and then ok.

The following program does work. Try to run it!

```
class HelloWorld {  
    public static void main( String[] args ) {  
        System.out.println("Hello World3");  
  
        int x = 5;  
        x++;  
        assert x ==2 : "x is " + x;  
  
        System.out.println("Hello World4");  
        System.out.println("Hello World5");  
    }  
}
```

Now run it with the `-ea` argument erased (this is the default).