```
module JunitTest {

        requires org.junit.jupiter.api;

        requires junit;

        requires org.junit.platform.suite.api;



}
```

```
public int square(int a) {

        return a*a;

}



public int countA(String s) {//Maria - 2,output

        int count=0;

        for(int i=0;i<s.length();i++) {

                if(s.charAt(i)=='a' || s.charAt(i)=='A'){

                        count=count+1;

                }

        }

        return count;



}
```

```java
public boolean ageCheck(int age) {

        if(age<20)

                return true;

        else

                return false;

}




public String nullCheck(String s) {

        if((s.equals("")) && (s!=null))

                return "";

        else

                return s;

}
```

[3:27 PM] Maria (Unverified)

aaa

[3:27 PM] Maria (Unverified)

```java
        JunitTesting test=new JunitTesting();

                int output=test.square(5);

                assertEquals(25, output);

            // assertNotEquals(26, output);
```

[3:29 PM] Maria (Unverified)

aaaa

[3:29 PM] Maria (Unverified)

```java
package com.test;

// Junit is a unit testing framework for Java
```

```java
public class JunitTesting {



    public int square(int a) {

        return a*a;

    }



    public int countA(String s) {//Maria - 2,output

        int count=0;

        for(int i=0;i<s.length();i++) {

            if(s.charAt(i)=='a' || s.charAt(i)=='A'){

                count=count+1;

            }

        }

        return count;


    }



    public boolean ageCheck(int age) {

        if(age<20)

            return true;

        else

            return false;

    }
```

```java
public String nullCheck(String s) {

        if((s.equals("")) && (s!=null))

                return "";

        else

                return s;

}


}
```

[3:29 PM] Maria (Unverified)

aaaa

[3:29 PM] Maria (Unverified)

```java
package com.test;


import static org.junit.jupiter.api.Assertions.*;


import org.junit.jupiter.api.Test;


class TestCharCount {


        @Test


        void test() {
```

```java
        JunitTesting test=new JunitTesting();

        int output=test.countA("Janani");

    assertEquals(2, output);

    }

}
```

III

```java
package com.test;

import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.Test;

class TestNullCheck {

    @Test

    void test() {

        JunitTesting test=new JunitTesting();
```

```
            String nullString=null;

            String notNullString="Maria";

            assertNull(nullString);

            //assertNotNull(notNullString);

    }

}
```

[3:30 PM] Maria (Unverified)

aaa

[3:30 PM] Maria (Unverified)

package com.test;

import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.Test;

class SquareTest {

            @Test

```java
        void test() {

                JunitTesting test=new JunitTesting();

                int output=test.square(5);

                assertEquals(25, output);

            // assertNotEquals(26, output);

        }

}
```

[3:30 PM] Maria (Unverified)

aaa

[3:30 PM] Maria (Unverified)

package com.test;

import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.Test;

class TestNullCheck {

        @Test

```java
void test() {

    JunitTesting test=new JunitTesting();

    String nullString=null;

    String notNullString="Maria";

    assertNull(nullString);

    //assertNotNull(notNullString);

}

}
```