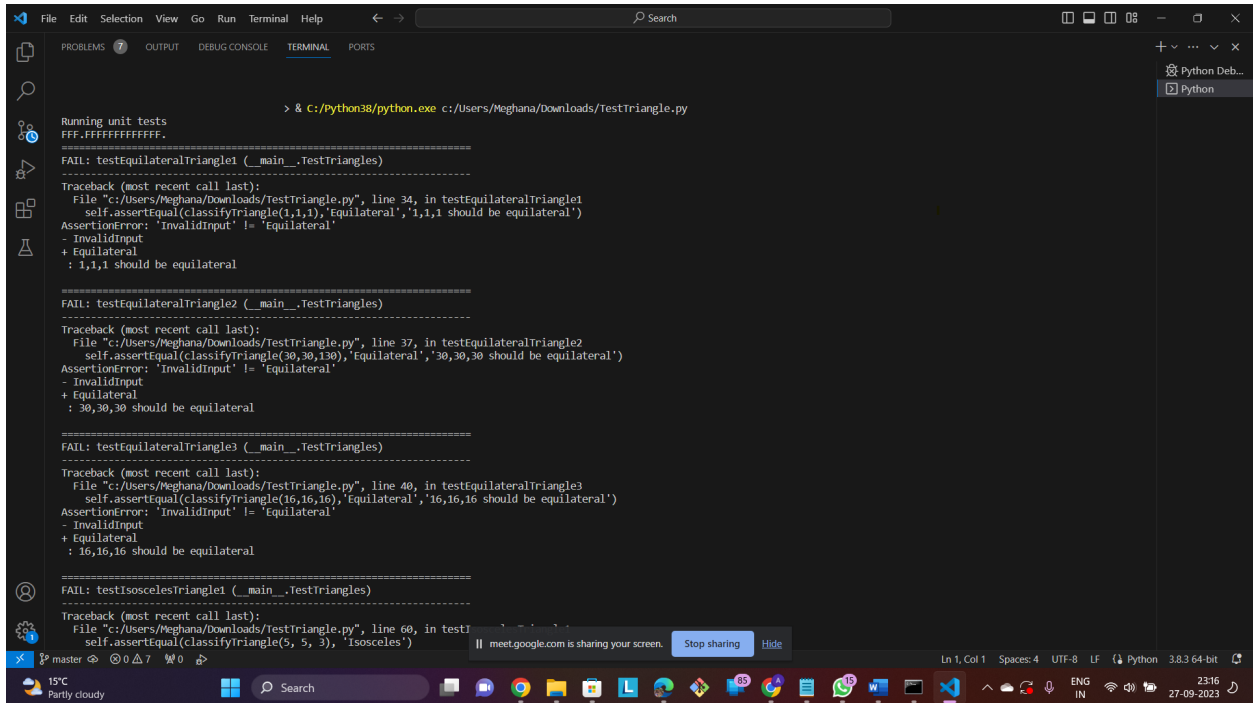
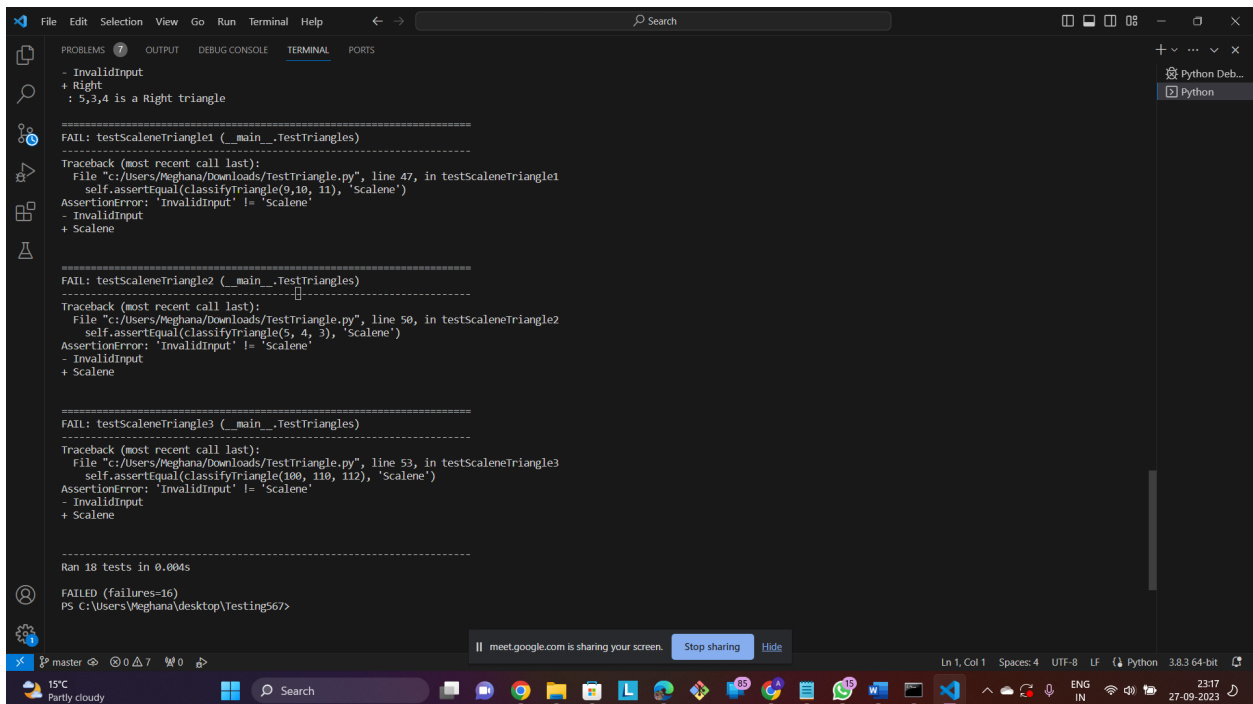


## Initial Test:



```
> & c:/python38/python.exe c:/Users/Meghana/downloads/TestTriangle.py

Running unit tests
FFF.FFFFFFFFFF
=====
FAIL: testEquilateralTriangle1 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 34, in testEquilateralTriangle1
    self.assertEqual(classifyTriangle(1,1,1), 'Equilateral', '1,1,1 should be equilateral')
AssertionError: 'InvalidInput' != 'Equilateral'
- InvalidInput
+ Equilateral
: 1,1,1 should be equilateral
=====
FAIL: testEquilateralTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 37, in testEquilateralTriangle2
    self.assertEqual(classifyTriangle(30,30,30), 'Equilateral', '30,30,30 should be equilateral')
AssertionError: 'InvalidInput' != 'Equilateral'
- InvalidInput
+ Equilateral
: 30,30,30 should be equilateral
=====
FAIL: testEquilateralTriangle3 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 40, in testEquilateralTriangle3
    self.assertEqual(classifyTriangle(16,16,16), 'Equilateral', '16,16,16 should be equilateral')
AssertionError: 'InvalidInput' != 'Equilateral'
- InvalidInput
+ Equilateral
: 16,16,16 should be equilateral
=====
FAIL: testIsoscelesTriangle1 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 60, in testIsoscelesTriangle1
    self.assertEqual(classifyTriangle(5, 3, 3), 'Isosceles')
AssertionError: 'InvalidInput' != 'Isosceles'
```



```
- InvalidInput
+ Right
: 3,3,4 is a Right triangle
=====
FAIL: testScaleneTriangle1 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 47, in testScaleneTriangle1
    self.assertEqual(classifyTriangle(9,10, 11), 'Scalene')
AssertionError: 'InvalidInput' != 'Scalene'
- InvalidInput
+ Scalene
=====
FAIL: testScaleneTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 50, in testScaleneTriangle2
    self.assertEqual(classifyTriangle(5, 4, 3), 'Scalene')
AssertionError: 'InvalidInput' != 'Scalene'
- InvalidInput
+ Scalene
=====
FAIL: testScaleneTriangle3 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Downloads/TestTriangle.py", line 53, in testScaleneTriangle3
    self.assertEqual(classifyTriangle(100, 110, 112), 'Scalene')
AssertionError: 'InvalidInput' != 'Scalene'
- InvalidInput
+ Scalene
=====
Ran 18 tests in 0.004s

FAILED (failures=16)
PS c:\Users\Meghana\desktop\Testing567>
```

```
File Edit Selection View Go Run Terminal Help
PS C:\Users\Meghana\Desktop\Testing567>

> & C:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py

Running unit tests
FFF.FFFF...FFFFF.

=====
FAIL: testEquilateralTriangle1 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 34, in testEquilateralTriangle1
    self.assertEqual(classifyTriangle(1,1,1), 'Equilateral', '1,1,1 should be equilateral')
AssertionError: 'NotATriangle' != 'Equilateral'
- NotATriangle
+ Equilateral
: 1,1,1 should be equilateral

=====
FAIL: testEquilateralTriangle2 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 37, in testEquilateralTriangle2
    self.assertEqual(classifyTriangle(30,30,130), 'Equilateral', '30,30,30 should be equilateral')
AssertionError: 'NotATriangle' != 'Equilateral'
- NotATriangle
+ Equilateral
: 30,30,30 should be equilateral

=====
FAIL: testEquilateralTriangle3 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 40, in testEquilateralTriangle3
    self.assertEqual(classifyTriangle(16,16,16), 'Equilateral', '16,16,16 should be equilateral')
AssertionError: 'NotATriangle' != 'Equilateral'
- NotATriangle
+ Equilateral
: 16,16,16 should be equilateral

Chat meet.google.com is sharing a window. Stop sharing Hide
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python 3.8.3 64-bit
15°C Partly cloudy Search
```

```
File Edit Selection View Go Run Terminal Help
: 5,3,4 is a Right triangle

=====
FAIL: testScaleneTriangle1 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 47, in testScaleneTriangle1
    self.assertEqual(classifyTriangle(9,10, 11), 'Scalene')
AssertionError: 'NotATriangle' != 'Scalene'
- NotATriangle
+ Scalene

=====
FAIL: testScaleneTriangle2 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 50, in testScaleneTriangle2
    self.assertEqual(classifyTriangle(5, 4, 3), 'Scalene')
AssertionError: 'NotATriangle' != 'Scalene'
- NotATriangle
+ Scalene

=====
FAIL: testScaleneTriangle3 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 53, in testScaleneTriangle3
    self.assertEqual(classifyTriangle(100, 110, 112), 'Scalene')
AssertionError: 'NotATriangle' != 'Scalene'
- NotATriangle
+ Scalene

=====
Ran 18 tests in 0.004s

FAILED (failures=12)
PS C:\Users\Meghana\Desktop\Testing567>
```



```
File Edit Selection View Go Run Terminal Help
PS C:\Users\Meghana\Desktop\Testing567>

> & c:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py

Running unit tests
.F..FFFFF..FF....
-----
FAIL: testEquilateralTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 37, in testEquilateralTriangle2
    self.assertEqual(classifyTriangle(30,30,130),'Equilateral','30,30,30 should be equilateral')
AssertionError: 'NotATriangle' != 'Equilateral'
- NotATriangle
+ Equilateral
: 30,30,30 should be equilateral

=====
FAIL: testIsoscelesTriangle1 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 60, in testIsoscelesTriangle1
    self.assertEqual(classifyTriangle(5, 5, 3), 'Isosceles')
AssertionError: 'Equilateral' != 'Isosceles'
- Equilateral
+ Isosceles

=====
FAIL: testIsoscelesTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 60, in testIsoscelesTriangle2
    self.assertEqual(classifyTriangle(4, 6, 6), 'Isosceles')
AssertionError: 'Isosceles' != 'Isosceles'
- Isosceles
+ Isosceles

=====
meet.google.com is sharing a window. Stop sharing Hide
Ln 32, Col 35 Spaces: 4 UTF-8 LF Python 3.8.3 64-bit
15°C Partly cloudy Search
```

```
File Edit Selection View Go Run Terminal Help
- Equilateral
+ NotATriangle

=====
FAIL: testNotATriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 77, in testNotATriangle2
    self.assertEqual(classifyTriangle(15, 1, 15), 'NotATriangle')
AssertionError: 'Scalene' != 'NotATriangle'
- Scalene
+ NotATriangle

=====
FAIL: testRightTriangleA (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 21, in testRightTriangleA
    self.assertEqual(classifyTriangle(3,4,5),'Right','3,4,5 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 3,4,5 is a Right triangle

=====
FAIL: testRightTriangleB (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 30, in testRightTriangleB
    self.assertEqual(classifyTriangle(7,9,8),'Right','5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
Ran 18 tests in 0.003s

FAILED (failures=8)
PS C:\Users\Meghana\Desktop\Testing567>

meet.google.com is sharing a window. Stop sharing Hide
Ln 32, Col 35 Spaces: 4 UTF-8 LF Python 3.8.3 64-bit
15°C Partly cloudy Search
```

```
File Edit Selection View Go Run Terminal Help
Search

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

=====
FAIL: testRightTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 24, in testRightTriangle2
    self.assertEqual(classifyTriangle(5,3,4),'Right','5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAIL: testRightTriangle3 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 27, in testRightTriangle3
    self.assertEqual(classifyTriangle(9,8,7),'Right','5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAIL: testRightTriangle4 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 30, in testRightTriangle4
    self.assertEqual(classifyTriangle(7,9,8),'Right','5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
Ran 20 tests in 0.003s

FAILED (failures=8)
PS c:\Users\Meghana\desktop\Testing567>
```

```
File Edit Selection View Go Run Terminal Help
Search

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

> & c:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py

Running unit tests
.F...F.FF..FFFF....

=====
FAIL: testEquilateralTriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 37, in testEquilateralTriangle2
    self.assertEqual(classifyTriangle(30,30,130),'Equilateral','30,30,30 should be equilateral')
AssertionError: 'NotATriangle' != 'Equilateral'
- NotATriangle
+ Equilateral
: 30,30,30 should be equilateral

=====
FAIL: testIsoscelesTriangle3 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 66, in testIsoscelesTriangle3
    self.assertEqual(classifyTriangle(8, 5, 8), 'Isosceles')
AssertionError: 'Scalene' != 'Isosceles'
- Scalene
+ Isosceles

=====
FAIL: testNotATriangle1 (__main__.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 74, in testNotATriangle1
    self.assertEqual(classifyTriangle(6, 6, 1), 'NotATriangle')
AssertionError: 'Isosceles' != 'NotATriangle'
- Isosceles
+ NotATriangle

=====
FAIL: testNotATriangle2 (__main__.TestTriangles)
-----
Traceback (most recent call last):
```

```
File Edit Selection View Go Run Terminal Help
: 3,4,5 is a Right triangle

=====
FAIL: testRightTriangle2 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 24, in testRightTriangle2
    self.assertEqual(classifyTriangle(5,3,4), 'Right', '5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAIL: testRightTriangle3 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 27, in testRightTriangle3
    self.assertEqual(classifyTriangle(9,0,7), 'Right', '5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAIL: testRightTriangle4 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 30, in testRightTriangle4
    self.assertEqual(classifyTriangle(7,9,8), 'Right', '5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAILED (failures=6)
PS c:\Users\Meghana\desktop\Testing567>
cmd.exe /c cd c:\Users\Meghana\desktop\Testing567 & python TestTriangle.py
```

```
File Edit Selection View Go Run Terminal Help
> & c:/python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py

Running unit tests
.....FF..FFFF....
=====
FAIL: testNotATriangle1 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 74, in testNotATriangle1
    self.assertEqual(classifyTriangle(6, 6, 1), 'NotATriangle')
AssertionError: 'Isosceles' != 'NotATriangle'
- Isosceles
+ NotATriangle

=====
FAIL: testNotATriangle2 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 77, in testNotATriangle2
    self.assertEqual(classifyTriangle(15, 1, 15), 'NotATriangle')
AssertionError: 'Scalene' != 'NotATriangle'
- Scalene
+ NotATriangle

=====
FAIL: testRightTriangle1 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 21, in testRightTriangle1
    self.assertEqual(classifyTriangle(3,4,5), 'Right', '3,4,5 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 3,4,5 is a Right triangle

=====
FAIL: testRightTriangle2 (__main__.TestTriangles)
=====
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 24, in testRightTriangle2
    self.assertEqual(classifyTriangle(5,3,4), 'Right', '5,3,4 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 5,3,4 is a Right triangle

=====
FAILED (failures=6)
PS c:\Users\Meghana\desktop\Testing567>
cmd.exe /c cd c:\Users\Meghana\desktop\Testing567 & python TestTriangle.py
```

```
File Edit Selection View Go Run Terminal Help
=====
FAIL: testRightTriangle3 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 27, in testRightTriangle3
    self.assertEqual(classifyTriangle(9,8,7),'Right','9,8,7 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 9,8,7 is a Right triangle

=====
FAIL: testRightTriangle4 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 30, in testRightTriangle4
    self.assertEqual(classifyTriangle(7,9,8),'Right','7,9,8 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 7,9,8 is a Right triangle

=====
FAIL: testScaleneTriangle2 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 50, in testScaleneTriangle2
    self.assertEqual(classifyTriangle(5, 4, 3), 'Scalene')
AssertionError: 'Right' != 'Scalene'
- Right
+ Scalene

=====
Ran 20 tests in 0.004s

FAILED (failures=5)
PS c:/Users/Meghana/desktop/Testing567>
```

```
File Edit Selection View Go Run Terminal Help
=====
- Right
+ Scalene

=====
Ran 20 tests in 0.003s

FAILED (failures=5)
PS c:/Users/Meghana/desktop/Testing567> & c:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py
Running unit tests
.....FF....FF.F..

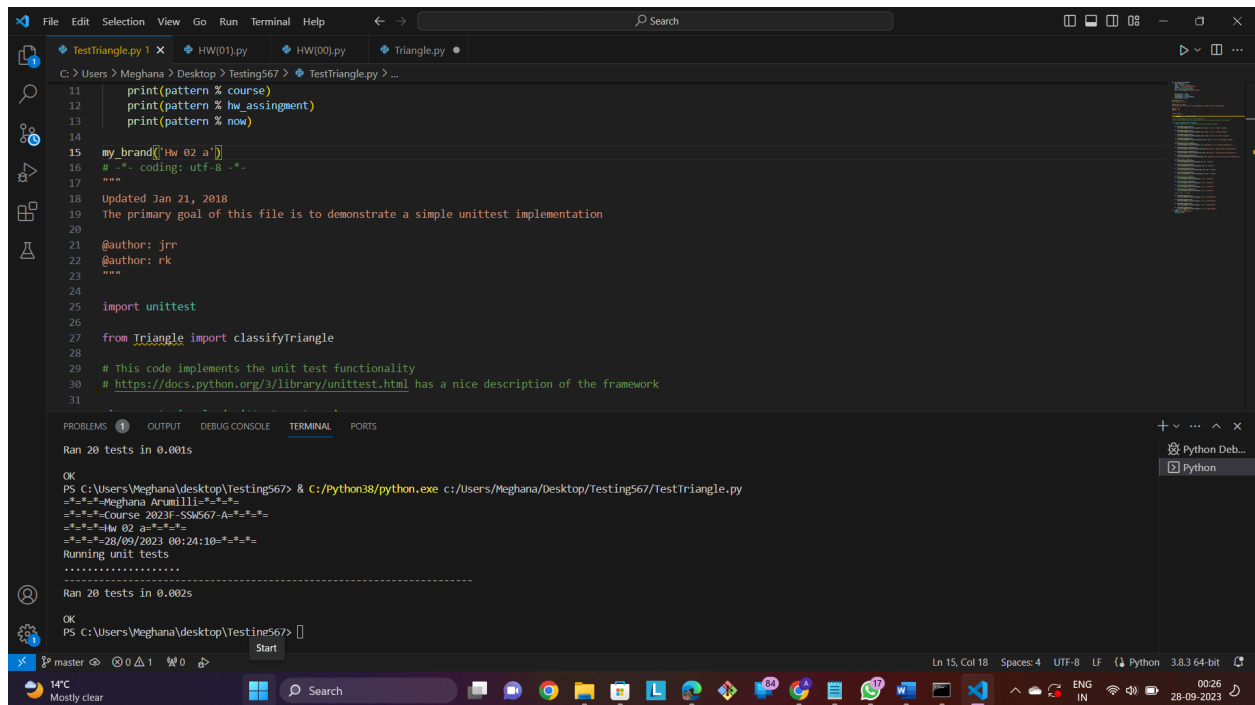
=====
FAIL: testNotATriangle1 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 74, in testNotATriangle1
    self.assertEqual(classifyTriangle(6, 6, 1), 'NotATriangle')
AssertionError: 'Isosceles' != 'NotATriangle'
- Isosceles
+ NotATriangle

=====
FAIL: testNotATriangle2 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 77, in testNotATriangle2
    self.assertEqual(classifyTriangle(15, 1, 15), 'NotATriangle')
AssertionError: 'Isosceles' != 'NotATriangle'
- Isosceles
+ NotATriangle

=====
FAIL: testRightTriangle3 (_main_.TestTriangles)
-----
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 27, in testRightTriangle3
    self.assertEqual(classifyTriangle(9,8,7),'Right','9,8,7 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 9,8,7 is a Right triangle

=====
```

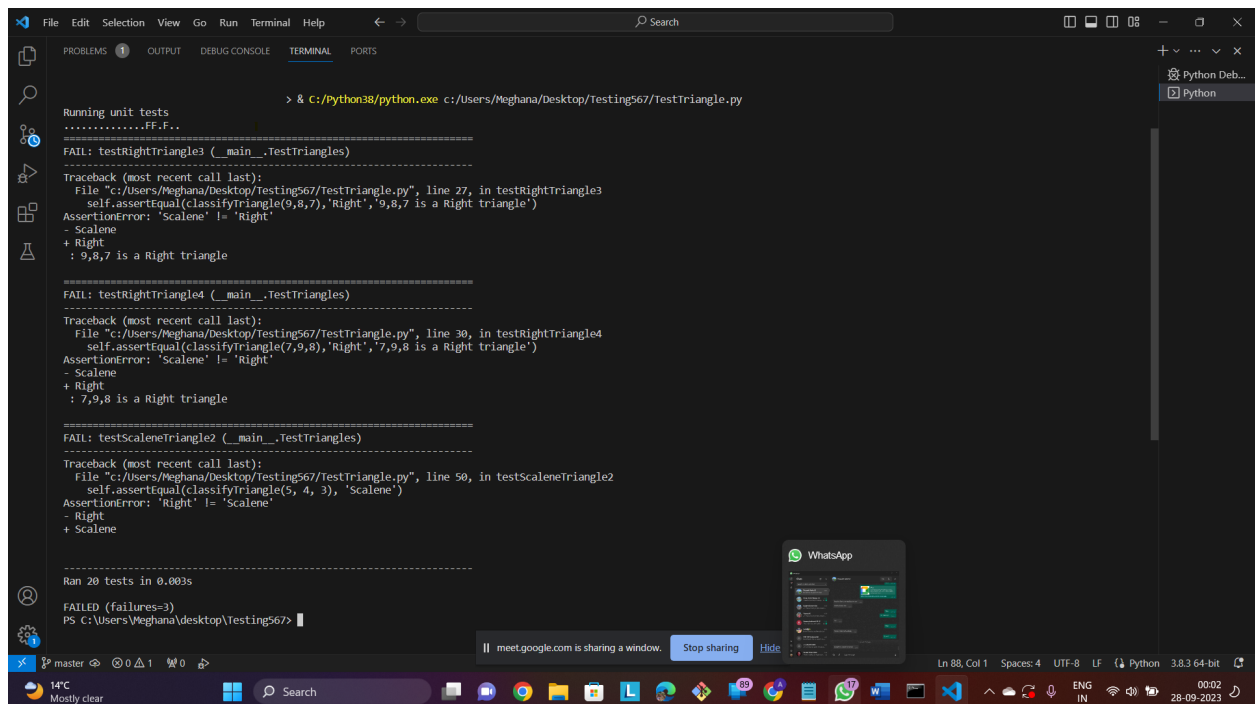
## Final Test:



The screenshot shows the Visual Studio Code editor with a file named `TestTriangle.py` open. The code includes a docstring with metadata and a unit test using `unittest` to verify the `classifyTriangle` function from the `Triangle` module. The terminal output shows that 20 tests passed successfully in 0.001s.

```
File Edit Selection View Go Run Terminal Help
TestTriangle.py HW(01).py HW(00).py Triangle.py

C:\Users\Meghana\Desktop> Testing567 > TestTriangle.py > ...
11 print(pattern % course)
12 print(pattern % hw_assignment)
13 print(pattern % now)
14
15 my_brand("Hw 02 a")
16 # -*- coding: utf-8 -*-
17
18 Updated Jan 21, 2018
19 The primary goal of this file is to demonstrate a simple unittest implementation
20
21 @author: jrr
22 @author: rk
23
24
25 import unittest
26
27 from Triangle import classifyTriangle
28
29 # This code implements the unit test functionality
30 # https://docs.python.org/3/library/unittest.html has a nice description of the framework
31
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Ran 20 tests in 0.001s
OK
PS C:\Users\Meghana\Desktop\Testing567> & C:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py
==*-==Meghana Arumilli==*-==
==*-==Course 2023F-SW567-A==*-==
==*-==Hw 02 a==*-==
==*-==28/09/2023 00:24:10==*-==
Running unit tests
.....
Ran 20 tests in 0.002s
OK
PS C:\Users\Meghana\Desktop\Testing567>
Start
master 1 0 0
14°C Mostly clear
```



The screenshot shows the Visual Studio Code editor with the same `TestTriangle.py` file. The terminal output shows that 3 tests failed out of 20. The failures are for `testRightTriangle3`, `testRightTriangle4`, and `testScaleneTriangle2`, all failing with `AssertionError: 'Scalene' != 'Right'`.

```
File Edit Selection View Go Run Terminal Help
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
> & C:/Python38/python.exe c:/Users/Meghana/Desktop/Testing567/TestTriangle.py

Running unit tests
.....FF.F..
FAIL: testRightTriangle3 (_main_.TestTriangles)
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 27, in testRightTriangle3
    self.assertEqual(classifyTriangle(9,8,7), 'Right', '9,8,7 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 9,8,7 is a Right triangle

FAIL: testRightTriangle4 (_main_.TestTriangles)
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 30, in testRightTriangle4
    self.assertEqual(classifyTriangle(7,9,8), 'Right', '7,9,8 is a Right triangle')
AssertionError: 'Scalene' != 'Right'
- Scalene
+ Right
: 7,9,8 is a Right triangle

FAIL: testScaleneTriangle2 (_main_.TestTriangles)
Traceback (most recent call last):
  File "c:/Users/Meghana/Desktop/Testing567/TestTriangle.py", line 50, in testScaleneTriangle2
    self.assertEqual(classifyTriangle(5, 4, 3), 'Scalene')
AssertionError: 'Right' != 'Scalene'
- Right
+ Scalene

Ran 20 tests in 0.003s
FAILED (failures=3)
PS C:\Users\Meghana\Desktop\Testing567>
meet.google.com is sharing a window. Stop sharing Hide
WhatsApp
14°C Mostly clear
```