

Tutorial 13

ECSE105L

Ques 1. There is a base class named as Tringle as shown in the diagram 1.

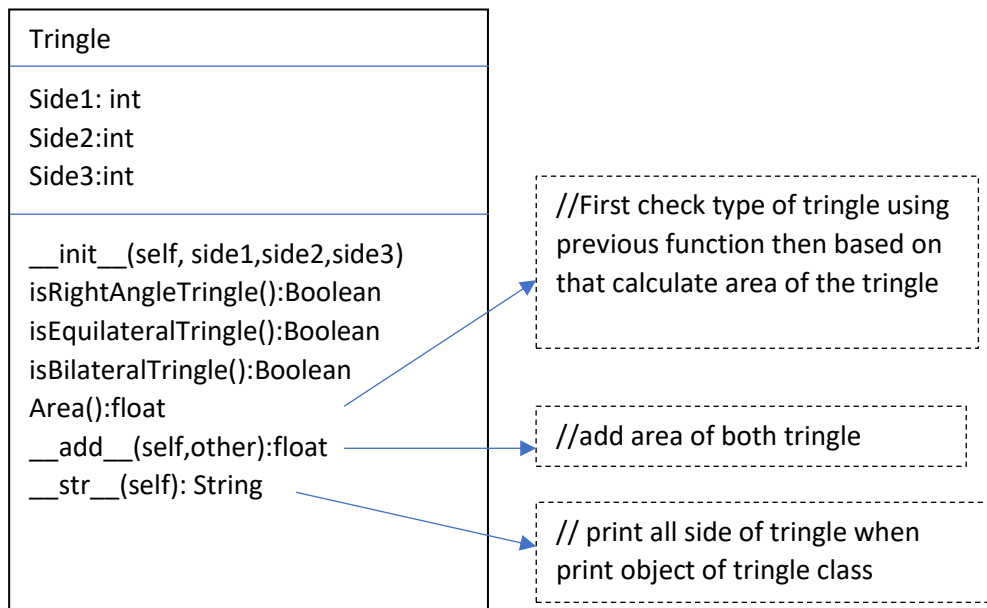


Figure 1

Write Python code for the problem describe in figure 1 (Class Diagram)

Properties Given	Area of Triangle Formula
base and height	$A = \frac{1}{2}bh$ where b = base, h = height
three sides	$A = \sqrt{s(s-a)(s-b)(s-c)}$ where a, b, and c are the lengths of the sides and $s = \frac{1}{2}(a+b+c)$ (half the perimeter)

Example of operator overloading:

```

class Point:
    def __init__(self, x = 0, y = 0):
        self.x = x
        self.y = y

    def __str__(self):
        return "({0},{1})".format(self.x, self.y)

    def __add__(self, other):
        x = self.x + other.x
        y = self.y + other.y
        return Point(x, y)

p1=Point(1,2)
p2=Point(1,2)
print(p1 + p2)

```