**2.Python: Shape Classes with Area Method**

Implement two classes:

Rectangle:

* The constructor for Rectangle must take two arguments that denote the length of the rectangle’s sides
* The class must have an area method that returns the area of the rectangle

Circle:

* The constructor for Circle mist take one argument that denotes the radius of the circle
* The Circle class must have an area method that returns the area of the circle. To implement the area method, use a precise Pi value(math.pi)

Round the answer to 2 decimal places

**Sample Case**

*Input:*

2 ->number of queries, q=2

circle 1 -> query parameters = [“circle 1”, “rectangle 2 3”]

rectangle 2 3

*Output:*

3.14

6.00

*Explanation:*

There are 2 queries. In the first of them, an object of class Circle with radius 1 is constructed. Then, the value of its area property with exactly 2 decimal points, is printed to the output. Since the radius of circle is 1, then the printed area is . In the second query, the object of class Rectangle is constructed with side lengths of 2 and 3. Then, the value of its area property, with exactly 2 decimal points, is printed to the output. Since the side lengths are 2 and 3, the printed area is 6.00