ASSIGNMENT 3

Date: 13-FEB-2024

HONG THANH

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1.Exercise 1
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In [1]: multiply = lambda x,y:x*y
        multiply(5,6)
Out[1]: 30
        2.Exercise 2
In [7]: from math import pi
        area_circle = lambda r:pi*(r**2)
        area_circle(10)
Out[7]: 314.1592653589793
In [3]: import math
        pi=math.pi
        def area_cicle(r):
            return pi*r**2
        area_cicle(10)
Out[3]: 314.1592653589793
        3.Exercise 3
In [4]: def caculate(num1, num2, operation):
            if operation == "a":return num1 + num2
            if operation == "s":return num1 - num2
            if operation == "m":return num1 * num2
            if operation == "d":return num1 / num2
        caculate(2,5,"d")
Out[4]: 0.4
        4.Exercise 4
In [5]: class Rectangle:
            def __init__(self, length, width):
                self.l= length
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Out[5]: 50

self.w = width
def area(self) :

r=Rectangle(10,5)

r.area()

5.Exercise 5

The area is:

This is a: square

return self.l*self.w

In [19]: class Shape: def __init__(self, name, length): self.n = nameself.1 = length def area(self): return #return 0 class Square(Shape): # subclass of Shape def init (self, name, length): super().__init__(name, length) # Shape.__init__(self, name, length), Inheritance of Shape def area(self): print("The area is:") return self.1**2 def describle(self): return("This is a: square") s=Square("square",5) # s is an instantiation print(s.area()) print(s.describle())