Assignment

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In [1]:
```
x = lambda a, b:a*b
print(x(5,6))
```

```
30
```

In [2]:
```
from math import pi

def calculate_circle_area(radius):
 area = radius**2 * pi

 return area

calculate_circle_area(10)
```

Out[2]:
```
314.1592653589793
```

In [3]:
```
def calculate(num1, num2, operator):
    if operator == "+":
        return num1 + num2
    elif operator == "-":
        return num1 - num2
    elif operator == "*":
        return num1 * num2
    elif operator == "/":
        return num1 / num2
    else:
        return "Invalid operator"

calculate(5, 5,'+')
```

Out[3]:
```
10
```

In [4]:
```
class rect:
    def __init__(self, l, w):
        self.l = l
        self.w = w

    def area(self):
        return self.l * self.w

x=rect(5,10)
print(x.area())
```

```
50
```

In [5]:
```
class Shape:
    def __init__(self, name, length):
        self.name = name
        self.length = length

    def area(self):
        return 0


class Square(Shape):
    def __init__(self, name, length):
        super().__init__(name, length)

    def area(self):
        msg="The area is "
        square_area=self.length **2
        msg1 = msg + str(square_area)
        return msg1

    def describe(self):
        msg="This is a " + self.name
        return msg

x= Square('square',5)
print(x.area())
print(x.describe())
```

```
The area is 25
This is a square
```