

Assignment 3

24. 02. 2023

Qiaoqiao Zou

exercise 1

```
In [213]: x = lambda num_1,num_2: num_1*num_2  
print(x(5, 6))
```

30

exercise 2

```
In [214]: import math  
x = lambda r: math.pi * (r **2)  
print(x(10))
```

314.1592653589793

exercise 3

```
In [222]: def my_func(num_1,num_2,char):  
    if char == "a":  
        print(num_1 + num_2)  
    elif char == "b":  
        print(num_1 - num_2)  
    elif char == "c":  
        print(num_1 * num_2)  
    elif char == "d":  
        print(num_1 / num_2)
```

```
my_func(2,5,"d")
```

0.4

exercise 4

```
In [216]: class Rectangle:
    def __init__(self, L, W):
        self.L = L
        self.W = W

    def area(self):
        print(self.L * self.W)

r = Rectangle(5,10)
r.area()
```

50

exercise 5

```
In [218]: class Shape:
    def __init__(self, name, length):
        self.name = name
        self.length = length
        print("The area is: " )

    class Square(Shape):
        def area(self):
            result = self.length ** 2
            return result

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

s = Square("square",5)
print(s.area())
print(s.describe())
```

The area is:

25

This is a: square