

Assignment 3

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Exercise 3

In [19]:

```
x = lambda num1, num2: num1 * num2
x(5,6)
```

Out[19]:

30

In [11]:

```
import math
def multiplyer (number):
    return number**2 * math.pi
multiplyer (10)
```

Out[11]:

314.1592653589793

In [14]:

```
def multiplier (num1, num2, op):
    if op == 'a':
        return num1 + num2
    elif op == 's':
        return num1 - num2
    elif op == 'm':
        return num1*num2
    elif op == 'd':
        return num1/num2
    else :
        return none
multiplier (2,5,'d')
```

Out[14]:

0.4

In [18]:

```
class Rectangle:
    def __init__(self, length, width):
        self.length = length
        self.width = width
    def area(self):
        return self.length * self.width
r = Rectangle (5,10)
r.area()
```

Out[18]:

50

In [23]:

```
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):
        return self.length**2
    def describe(self):
        return "This is a " + self.name

s = Square('square',5)

area = s.area()

print("The area is", area)
print(s.describe())
```

The area is 25
This is a square