Assignment 3

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Exercise 1

```
x = lambda num1,num2: num1*num2
x(5,6)
30
```

Exercise 2

```
from math import pi
def area_of_circle(r):
    return pi*r**2
area_of_circle(10)
```

Exercise 3

```
def calculator(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
calculator(2,5,'d')
```

0.4

Exercise 4

```
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()
```

Exercise 5

50

```
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 describe(self):
 print('This is a:', self.name)
def area(self):
 print('The area is: ')
 return self.length ** 2
s = Square('square',5)
s.area()
```

The area is:

25

```
s.describe()

This is a: square

print(s.area())
```

s.describe()

The area is:

This is a: square

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