

Assignment 3

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Exercise 1

```
In [2]: x=lambda num1,num2:num1*num2  
print(x(5,6))
```

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Exercise 2

```
In [3]: import math  
r=10  
area = math.pi * r * r  
print("Area of a circle = %.13f" %area)
```

Area of a circle = 314.1592653589793

Exercise 3

```
In [4]: def divide(num1,num2):  
        return num1/num2  
divide(2,5)
```

Out[4]: 0.4

Exercise 4

```
In [5]: class Rectangle():  
        def __init__(self, l, w):  
            self.length = l  
            self.width = w  
  
        def area(self):  
            return self.length*self.width  
  
r = Rectangle(5, 10)  
print(r.area())
```

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Exercise 5

```
In [6]: class Shape():
        def __init__(self, name, length):
            self.name=name
            self.length=length

        def area(self):
            return 0

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

            def describe(self):
                return self.name

s = Square('Square',5)
print("The area is: ")
print(s.area())
print("This is a: ",s.describe())
```

```
The area is:
25
This is a:  Square
```

```
In [ ]:
```