Assignment 3

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exercise 1

```
In [1]: x=lambda num1,num2: num1*num2
        x(5,6)
```

```
Out[1]: 30
```

exercise 2

```
In [5]: from math import pi
        def area_circle(radius):
            return pi*radius*radius

        area_circle (10)
```

```
Out[5]: 314.1592653589793
```

exercise 3

```
In [124... def function(num1,num2,operation):
             if operation == 'a':
                 return num1+num2
             elif operation == 's':
                 return num1-num2
             elif operation == 'm':
                 return num1*num2
             elif operation == 'd':
                 return num1/num2

        function(2,5,'d')
```

```
Out[124]: 0.4
```

exercise 4

```
In [102... 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[102]: 50
```

exercise 5

```
In [119... class shape():
             def __init__(self,name,length):
                 self.name=name
                 self.length=length

        #subclass
        class square(shape):
             def __init__(self,name,length):
                 self.name=name
                 self.length=length

             def area(self):
                 print ("The area is:")
                 return self.length*self.length

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

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

```
The area is:
25
This is a:square
None
```