Assignment 3

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October 6th, 2021

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

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

In [3]:
```
import math
def area(radius):
    return radius**2*math.pi
area(10)
```

Out[3]:
```
314.1592653589793
```

In [7]:
```
def caculation(num1, num2, cal):
 if(cal == 'a'):
     return num1 + num2
 if(cal == 'b'):
     return num1 - num2
 if(cal == 'c'):
     return num1 * num2
 if(cal == 'd'):
     return num1 / num2
caculation(2, 5, 'd')
```

Out[7]:
```
0.4
```

In [22]:
```
class Rectangle:
 def __init__(self, length, width):
     self.length = length
     self.width = width
 def area (self):
     return self.length * self.width
s = Rectangle(5, 10)
s.area()
```

Out[22]:
```
50
```

In [25]:
```
class Shape:
 def __init__(self, name, length):
     self.name = name
     self.length = length
class Square (Shape):
 def __init__(self, name, length):
     Shape.__init__(self, name, length)
 def area (self):
     print("The area is:")
     return self.length ** 2
 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
```