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Exercise 1:

In [37]:
```
expression = lambda val_1, val_2: val_1 * val_2
#input
expression(5, 6)
```

Out[37]: 30

Exercise 2:

In [38]:
```
import math
def function(radius):
    return math.pi * radius * radius
#input
function(10)
```

Out[38]: 314.1592653589793

Exercise 3:

In [39]:
```
def function(val_1, val_2, typ):
    if(typ == 'a'):
        return val_1 + val_2
    if(typ == 's'):
        return val_1 - val_2
    if(typ == 'm'):
        return val_1 * val_2
    if(typ == 'd'):
        return val_1 / val_2
#input
function(2, 5, 'd')
```

Out[39]: 0.4

Exercise 4:

In [40]:
```
class Rectangle:
    def __init__(self, length, width):
        self.length = length   #argument
        self.width = width

    def area (self):
        return self.length * self.width
#input
r = Rectangle(5, 10) #Create an object
r.area()
```

Out[40]: 50

Exercise 5:

In [41]:
```
# Super Class
class Shape:
    def __init__(self, name, length):
        self.name = name
        self.length = length
    def area (self):
        return 0
#Sub Class
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)

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

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

In [ ]:
```

```