Assignment 3

Phudit Onjun

1.

In [1]:
```
x = lambda a,b: a*b
x(5,6)
```

Out[1]: 30

2.

In [2]:
```
def circle_area(radius):
    return 22/7 * (radius**2)
circle = circle_area(10)
print(circle)
```

```
314.2857142857143
```

3.

In [9]:
```
def calculator(a,b,letter):
    if letter == 'd':
        return a / b
    elif letter == 'e':
        return a + b
    elif letter == 'f':
        return a - b
    else:
        return a * b
calculator(2,5,'d')
```

Out[9]: 0.4

4.

In [5]:
```
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[5]: 50

5.

In [23]:
```
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):
        self.name = name
        self.length = length
    def area(self):
        return self.length ** 2
    def describe(self):
        return print('This is a:', self.name)


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

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