ASSIGNMENT WEEK 03

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Question 01

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

Out[1]: 30

Question 02

In [1]:
```
def circle_area(r):
    return 3.14 * r * r
circle_area(10)
```

Out[1]: 314.0

Question 03

In [1]:
```
def calculator(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
    else:
        return "Invalid operation"
# Runing the test case from your image
result = calculator(2, 5, 'd' )
print(result)
```

```
0.4
```

Question 04

In [1]:
```
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)
print(r.area())
```

```
50
```

Question 05

In [1]:
```
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):
        super().__init__(name, length)
    def area(self):
        return self.length * self.length
    def describe(self):
        return "This is a: " + self.name
s = square('square',5)
print(s.area())
print(s.describe())
```

```
25
This is a: square
```

In [ ]: