ASSIGNMENT 3

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Question-1

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

```
30
```

Question-2

In [4]:
```
import math
def circle_area(radius):
    return math.pi* radius**2
print(circle_area(10))
```

```
314.1592653589793
```

Question-3

In [5]:
```
def calculator(number1,number2,operation):
    if operation == 'a' or operation == '+':
        return number1+number2
    elif operation == 's' or operation =='-':
        return number1-number2
    elif operation =='m' or operation =='*':
        return number1*number2
    elif operation =='d' or operation == '/':
        return number1/number2
    else:
        return "Invalid operation"
print(calculator(2,5,'d'))
```

```
0.4
```

Question-4

In [16]:
```
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-5

In [19]:
```
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("the area is:")
print(s.area())
print(s.describe())
```

```
the area is:
25
this is a:square
```

Thank You

In [ ]:
```

```