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Assignmnet 8

Part 1 Implement the OOPs examples provided in the PPT.

In [20]:

```
class Dog:
    def __init__(self,n,sc,el,spot):
        self.name = n
        self.skinColor = sc
        self.earLength = el
        self.isSpotted =spot
        print("Dog has been created!!")
    def walk(self):
        print("{0} is walking!".format(self.name))
    def eat(self):
        print("{0} is eating!".format(self.name))
print("Hello dog is created")
```

```
Hello dog is created
```

In [22]:

```
doggie1 = Dog("ScoobyDoo","brown","short",True)
doggie1.walk()
print()
doggie2 =Dog('Tommy', 'white', 'long', False )
doggie2.walk()
```

```
Dog has been created!!
ScoobyDoo is walking!

Dog has been created!!
Tommy is walking!
```

In [24]:

```
class Person:
    def __init__(self, name,age):
        self.name =name
        self.age = age
    def myfunc(self):
        print("Hello my name is " +self.name)

# Creating John with age 36
p1 = Person("John",36)
p1.myfunc()
```

```
Hello my name is John
```

Part 2 Write a python code using the concept of OOPs to add two complex numbers

In [38]:

```
class Complex:
    def __init__(self, real,img):
        self.real=int(real)
        self.img=int(img)
```

```
    def printCom(self):
        print("Created complex number : {0} + {1}i".format(self.real,self.img))
    def comSum(self,number):
        re=self.real+number.real
        im=self.img+number.img
        result=Complex(re,im)
        return result
```

In [39]:

```
c1=Complex(2,3)
c2=Complex(4,5)
```

In [40]:

```
c1.printCom()
c2.printCom()
```

```
Created complex number : 2 + 3i
Created complex number : 4 + 5i
```

In [42]:

```
res=c1.comSum(c2)
```

In [43]:

```
res.printCom()
```

```
Created complex number : 6 + 8i
```

In [ ]:

```

```