**4.Write a python program which perform following operations on complex numbers a. Create two attributes Re and Im to store real and imaginary parts of complex number. b. Initialize real and imaginary number in init method. c. create two objects C1 and C2 (ie two complex numbers) . d. Perform C1 + C2 e. C1-C2**

**ANS:**

**a)**

**program:**

re=4

im=5

z=complex(rm,im)

print(z)

**output:**

(4+5j)

**b)**

**program:**

class Complex:

def \_\_init\_\_(self,re,im):

self.re=re

self.im=im

self.z=complex(re,im)

def print1(self):

print(self.z)

z1=Complex(3,4)

z1.print1()

**output:**

(3+4j)

**c)**

**program:**

c1=complex(3,4)

c2=complex(5,1)

print(c1)

print(c2)

**output:**

(3+4j)

(5+1j)

**d)**

**program:**

c1=complex(3,4)

c2=complex(5,1)

print(c1+c2)

**output:**

(8+5j)

**e)**

**program:**

c1=complex(3,4)

c2=complex(5,1)

print(c1-c2)

**output:**

(-2+3j)

1. :

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