COMPLEX DATA TYPE

```
In [2]: z = 3 + 4j
 In [4]: print(z.real)
         print(z.imag)
        3.0
        4.0
 In [5]: a = 3 + 4j
         b = 1 + 2j
 In [6]: print(a + b) # addition
        (4+6j)
 In [7]: print(a - b) # substration
        (2+2j)
 In [8]: print(a * b) # multiplication
        (-5+10j)
 In [9]: print(a / b) # division
        (2.2-0.4j)
In [10]: z = 3 + 4j
In [11]: print(abs(z)) # 5.0 (Magnitude)
        5.0
In [20]: print(z.conj()) # (3-4j) (complex conjugate)
        AttributeError
                                                  Traceback (most recent call last)
        Cell In[20], line 1
        ----> 1 print(z.conj())
        AttributeError: 'complex' object has no attribute 'conj'
In [14]: import cmath
In [15]: z = 1 + 1j
In [16]: print(cmath.phase(z))
        0.7853981633974483
In [17]: print(cmath.polar(z))
        (1.4142135623730951, 0.7853981633974483)
```