

```
import math
     class Complex(object):
         def __init__(self, real, imaginary):
             self.imaginary = imaginary
        def __add__(self, no):
             real = self.real + no.real
             imaginary = self.imaginary + no.imaginary
             return Complex(real, imaginary)
        def __sub__(self, no):
             imaginary = self.imaginary - no.imaginary
16
             return Complex(real, imaginary)
19
         def __mul__(self, no):
             real = self.real * no.real - self.imaginary * no.imaginary
20
             imaginary = self.real * no.imaginary + self.imaginary * no.real
             return Complex(real, imaginary)
         def __truediv__(self, no):
24
25
             x = float(no.real ** 2 + no.imaginary ** 2)
             y = self * Complex(no.real, -no.imaginary)
28
             imaginary = y.imaginary / x
```

```
Change Theme Language Python 3
                                                                    26
            y = self * Complex(no.real, -no.imaginary)
            imaginary = y.imaginary / x
            return Complex(real, imaginary)
           real = math.sqrt(self.real ** 2 + self.imaginary ** 2)
            return Complex(real, 0)
34
               result = "%.2f+0.00i" % (self.real)
            elif self.real == 0:
                   result = "0.00+%.2fi" % (self.imaginary)
40
                  result = "0.00-%.2fi" % (abs(self.imaginary))
           elif self.imaginary > 0:
    result = "%.2f+%.2fi" % (self.real, self.imaginary)
              result = "%.2f-%.2fi" % (self.real, abs(self.imaginary))
48
d = map(float, input().split())
        x = Complex(*c)
        y = Complex(*d)
        print(*map(str, [x+y, x-y, x*y, x/y, x.mod(), y.mod()]), sep='\n')
                                                                          Line: 9 Col: 5
```