```
In [1]: print('Addition: ', 1 + 2)
        print('Subtraction: ', 2 - 1)
        print('Multiplication: ', 2 * 3)
        print ('Division: ', 4 / 2)
        print('Division: ', 6 / 2)
        print('Division: ', 7 / 2)
        print('Division without the remainder: ', 7 // 2)
        print('Modulus: ', 3 % 2)
        print ('Division without the remainder: ', 7 // 3)
        print('Exponential: ', 3 ** 2)
       Addition: 3
       Subtraction: 1
       Multiplication: 6
       Division: 2.0
       Division: 3.0
       Division: 3.5
       Division without the remainder: 3
       Modulus: 1
       Division without the remainder: 2
       Exponential: 9
In [2]: print('Floating Number,PI', 3.14)
        print('Floating Number, gravity', 9.81)
       Floating Number, PI 3.14
       Floating Number, gravity 9.81
In [3]: print('Complex number: ', 1 + 1j)
        print('Multiplying complex number: ',(1 + 1j) * (1-1j))
       Complex number: (1+1j)
       Multiplying complex number: (2+0j)
In [4]: a = 3
        b = 2
        total = a + b
        diff = a - b
        product = a * b
        division = a / b
        remainder = a % b
        floor_division = a // b
        exponential = a ** b
        print(total)
        print('a + b = ', total)
        print('a - b = ', diff)
        print('a * b = ', product)
        print('a / b = ', division)
        print('a % b = ', remainder)
        print('a // b = ', floor_division)
        print('a ** b = ', exponential)
       a + b = 5
       a - b = 1
       a * b = 6
       a / b = 1.5
       a \% b = 1
       a // b = 1
       a ** b = 9
```

```
In [5]: num_one = 3
        num_two = 4
        total = num_one + num_two
        diff = num_two - num_one
        product = num_one * num_two
        div = num_two / num_two
        remainder = num_two % num_one
        print('total: ', total)
        print('difference: ', diff)
        print('product: ', product)
        print('division: ', div)
        print('remainder: ', remainder)
       total: 7
       difference: 1
       product: 12
       division: 1.0
       remainder: 1
In [6]: radius = 10
        area_of_circle = 3.14 * radius ** 2
        print('Area of a circle:', area_of_circle)
       Area of a circle: 314.0
In [7]: length = 10
        width = 20
        area_of_rectangle = length * width
        print('Area of rectangle:', area_of_rectangle)
       Area of rectangle: 200
In [8]: mass = 75
        gravity = 9.81
        weight = mass * gravity
        print(weight, 'N')
        print(3 > 2)
        print(3 >= 2)
        print(3 < 2)
        print(2 < 3)</pre>
        print(2 <= 3)
        print(3 == 2)
        print(3 != 2)
        print(len('mango') == len('avocado'))
        print(len('mango') != len('avocado'))
        print(len('mango') < len('avocado'))</pre>
        print(len('milk') != len('meat'))
        print(len('milk') == len('meat'))
        print(len('tomato') == len('potato'))
        print(len('python') > len('dragon'))
```

```
735.75 N
        True
        True
        False
        True
        True
        False
        True
        False
        True
        True
        False
        True
        True
        False
In [9]: print('True == True: ', True == True)
         print('True == False: ', True == False)
         print('False == False:', False == False)
         print('True and True: ', True and True)
         print('True or False:', True or False)
        True == True: True
        True == False: False
        False == False: True
        True and True: True
        True or False: True
In [10]: print('1 is 1', 1 is 1)
         print('1 is not 2', 1 is not 2)
         print('A in Asabeneh', 'A' in 'Asabeneh')
         print('B in Asabeneh', 'B' in 'Asabeneh')
         print('coding' in 'coding for all')
         print('a in an:', 'a' in 'an')
         print('4 is 2 ** 2:', 4 is 2 ** 2)
        1 is 1 True
        1 is not 2 True
        A in Asabeneh True
        B in Asabeneh False
        True
        a in an: True
        4 is 2 ** 2: True
        <>:1: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
        <>:2: SyntaxWarning: "is not" with 'int' literal. Did you mean "!="?
        <>:7: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
        <>:1: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
        <>:2: SyntaxWarning: "is not" with 'int' literal. Did you mean "!="?
        <>:7: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
        C:\Users\HAI\AppData\Local\Temp\ipykernel_9812\1715594516.py:1: SyntaxWarning: "i
        s" with 'int' literal. Did you mean "=="?
          print('1 is 1', 1 is 1)
        C:\Users\HAI\AppData\Local\Temp\ipykernel 9812\1715594516.py:2: SyntaxWarning: "i
        s not" with 'int' literal. Did you mean "!="?
          print('1 is not 2', 1 is not 2)
        C:\Users\HAI\AppData\Local\Temp\ipykernel_9812\1715594516.py:7: SyntaxWarning: "i
        s" with 'int' literal. Did you mean "=="?
          print('4 is 2 ** 2:', 4 is 2 ** 2)
In [ ]:
```