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```
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
In [5]: total = a + b
        diff = a - b
        product = a * b
        division = a / b
        remainder = a % b
        floor division = a // b
        exponential = a ** b
In [6]: 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)
```

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```
a + b = 5
        a - b = 1
        a * b = 6
        a / b = 1.5
        a \% b = 1
        a // b = 1
        a ** b = 9
 In [7]: | num_one = 3
         num_two = 4
 In [8]: 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
 In [9]: 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 [10]:
         radius=10
         area_of_circle=3.14*radius**2
         print('Area of a circle:', area_of_circle)
        Area of a circle: 314.0
In [11]: length = 10
         width = 20
         area_of_rectangle = length * width
         print('Area of rectangle:', area_of_rectangle)
        Area of rectangle: 200
In [12]: mass = 75
         gravity = 9.81
         weight = mass * gravity
         print(weight, 'N')
        735.75 N
In [13]: print(3 > 2)
         print(3 >= 2)
         print(3 < 2)</pre>
         print(2 < 3)</pre>
         print(2 <= 3)</pre>
         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'))
```

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```
print(len('milk') == len('meat'))
         print(len('tomato') == len('potato'))
         print(len('python') > len('dragon'))
        True
        True
        False
        True
        True
        False
        True
        False
        True
        True
        False
        True
        True
        False
In [14]: 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 [15]: 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\DELL\AppData\Local\Temp\ipykernel_13928\2170641193.py:1: SyntaxWarning:
        "is" with 'int' literal. Did you mean "=="?
          print('1 is 1', 1 is 1)
        C:\Users\DELL\AppData\Local\Temp\ipykernel_13928\2170641193.py:2: SyntaxWarning:
        "is not" with 'int' literal. Did you mean "!="?
          print('1 is not 2', 1 is not 2)
        C:\Users\DELL\AppData\Local\Temp\ipykernel_13928\2170641193.py:7: SyntaxWarning:
        "is" with 'int' literal. Did you mean "=="?
          print('4 is 2 ** 2:', 4 is 2 ** 2)
```

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```
In [16]: print(3 > 2 and 4 > 3)
           print(3 > 2 \text{ and } 4 < 3)
          print(3 < 2 and 4 < 3)</pre>
          print(3 > 2 \text{ or } 4 > 3)
           print(3 > 2 \text{ or } 4 < 3)
           print(3 < 2 or 4 < 3)</pre>
          print(not 3 > 2)
          print(not True)
          print(not False)
          print(not not True)
          print(not not False)
         True
         False
         False
         True
         True
         False
         False
         False
         True
         True
         False
 In [ ]:
```