In [ ]:
```
print(3 + 2)
```

In [ ]:
```
print(3 - 2)
```

In [ ]:
```
print(3 * 2)
```

In [ ]:
```
print(3 / 2)
```

In [ ]:
```
print(3 ** 2)
```

In [ ]:
```
print(3 % 2)
```

In [ ]:
```
print(3 // 2)
```

In [ ]:
```
print(type(10))
```

In [ ]:
```
print(type(3.14))
```

In [ ]:
```
print(type(1 + 3j))
```

In [ ]:
```
print(type('prakashsenapati'))
```

In [ ]:
```
print(type([1, 2, 3]))
```

In [ ]:
```
print(type({'name':'senapati'}))
```

In [ ]:
```
print(type({9.8, 3.14, 2.7}))
```

In [ ]:
```
print(type((9.8, 3.14, 2.7)))
```

In [ ]:
```
print(type(3 == 3))
```

In [ ]:
```
print(type(3 >= 3))
```

In [ ]:
```
print('Addition: ', 1 + 2)
```

In [ ]:
```
print('Subtraction: ', 2 - 1)
```

In [ ]:
```
print('Multiplication: ', 2 * 3)
```

In [ ]:
```
print ('Division: ', 4 / 2)
```

In [ ]:
```
print('Division: ', 6 / 2)
```

In [ ]:
```
print('Division: ', 7 / 2)
```

In [ ]:
```
print('Division without the remainder: ', 7 // 2)
```

In [ ]:
```
print('Modulus: ', 3 % 2)
```

In [ ]:
```
print ('Division without the remainder: ', 7 // 3)
```

In [ ]:
```
print('Exponential: ', 3 ** 2)
```

In [ ]:
```
print('Floating Number,PI', 3.14)
```

In [ ]:
```
print('Floating Number, gravity', 9.81)
```

In [ ]:
```
print('Complex number: ', 1 + 1j)
```

In [ ]:
```
print('Multiplying complex number: ',(1 + 1j) * (1-1j))
```

In [ ]:
```
a = 3
b = 2
```

In [ ]:
```
total = a + b
```

In [ ]:
```
total
```

In [ ]:
```
diff = a - b
diff
```

In [ ]:
```
product = a * b
product
```

In [ ]:
```
division = a / b
division
```

In [ ]:
```
remainder = a % b
remainder
```

In [ ]:
```
floor_division = a // b
floor_division
```

In [ ]:
```
exponential = a ** b
exponential
```

In [ ]:
```
print(total) # if you don't label your print with some string, you never know from
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)
```

In [ ]:
```
num_one = 3
num_two = 4
```

In [ ]:
```
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 [ ]:
```
print('total: ', total)
print('difference: ', diff)
print('product: ', product)
print('division: ', div)
print('remainder: ', remainder)
```

In [ ]:
```
radius = 10
area_of_circle = 3.14 * radius ** 2
print('Area of a circle:', area_of_circle)
```

In [ ]:
```
length = 10
width = 20
area_of_rectangle = length * width
print('Area of rectangle:', area_of_rectangle)
```

In [ ]:
```
mass = 75
gravity = 9.81
weight = mass * gravity
print(weight, 'N')
```

In [ ]:
```
print(3 > 2)
```

In [ ]:
```
print(3 >= 2)
```

In [ ]:
```
print(3 < 2)
```

In [ ]:
```
print(2 < 3)
```

In [ ]:
```
print(2 <= 3)
```

In [ ]:
```
print(3 == 2)
```

In [ ]:
```
print(3 != 2)
```

In [ ]:
```
print(len('mango') == len('avocado'))
```

In [ ]:
```
print(len('mango') != len('avocado'))
```

In [ ]:
```
print(len('mango') < len('avocado'))
```

In [ ]:
```
print(len('milk') != len('meat'))
```

In [ ]:
```
print(len('milk') == len('meat'))
```

In [ ]:
```
print(len('tomato') == len('potato'))
```

In [ ]:
```
print(len('python') > len('dragon'))
```

In [ ]:
```
print('True == True: ', True == True)
```

In [ ]:
```
print('True == False: ', True == False)
```

In [ ]:
```
print('False == False:', False == False)
```

In [ ]:
```
print('True and True: ', True and True)
```

In [ ]:
```
print('True or False:', True or False)
```

In [ ]:
```
print('1 is 1', 1 is 1)
```

In [ ]:
```
print('1 is not 2', 1 is not 2)
```

In [ ]:
```
print('A in Asabeneh', 'A' in 'Asabeneh')
```

In [ ]:
```
print('B in Asabeneh', 'B' in 'Asabeneh')
```

In [ ]:
```
print('coding' in 'coding for all')
```

In [ ]:
```
print('a in an:', 'a' in 'an')
```

In [ ]:
```
print('4 is 2 ** 2:', 4 is 2 ** 2)
```

In [ ]:
```
print(3 > 2 and 4 > 3)
```

In [ ]:
```
print(3 > 2 and 4 < 3)
```

In [ ]:
```
print(3 < 2 and 4 < 3)
```

In [ ]:
```
print(3 > 2 or 4 > 3)
```

In [ ]:
```
print(3 > 2 or 4 < 3)
```

In [ ]:
```
print(3 < 2 or 4 < 3)
```

In [ ]:
```
print(not 3 > 2)
```

In [ ]:
```
print(not True)
```

In [ ]:
```
print(not False)
```

In [ ]:
```
print(not not True)
```

In [ ]:
```
print(not not False)
```

Variables in Python

In [ ]:
```
first_name = 'PRAKASH'
last_name = 'SENAPATI'
country = 'HYD'
city = 'TELENGANA'
age = 40087
is_married = True
skills = ['HTML', 'CSS', 'JS', 'React', 'Python']
person_info = {
    'firstname':'Asabeneh',
    'lastname':'Yetayeh',
    'country':'Finland',
    'city':'Helsinki'
    }
```

In [ ]:
```
print('First name:', first_name)
```

In [ ]:
```
print('First name length:', len(first_name))
```

In [ ]:
```
print('Last name: ', last_name)
```

In [ ]:
```
print('Last name length: ', len(last_name))
```

In [ ]:
```
print('Country: ', country)
```

In [ ]:
```
print('City: ', city)
```

In [ ]:
```
print('Age: ', age)
```

In [ ]:
```
print('Married: ', is_married)
```

In [ ]:
```
print('Skills: ', skills)
```

In [ ]:
```
print('Person information: ', person_info)
```

In [ ]:
```
first_name, last_name, country, age, is_married = 'Asabeneh', 'Yetayeh', 'Helsink',
```

Complex Number

In [109…
```
z=3+4j
print(z.real)
print(z.imag)
```

```
3.0
4.0
```

In [110…
```
a=3+4j
b=1+2j
print(a+b)
```

```
(4+6j)
```

In [111…
```
print(a+b)
print(a-b)
print(a*b)
print(a/b)
```

```
(4+6j)
(2+2j)
(-5+10j)
(2.2-0.4j)
```

In [112…
```
print(a*b)
```

```
(-5+10j)
```

In [113…
```
print(a)
print(b)
print(a*b)
```

```
(3+4j)
(1+2j)
(-5+10j)
```

In [ ]: