```
# -*- coding: utf-8 -*-
"""Operators.ipynb

Automatically generated by Colaboratory.

Original file is located at
    https://colab.research.google.com/drive/1apM2gnUXqUjNQajzHd89DY16S8jZN9m5

Arithmetic Operator
"""

val1 = 2
val2 = 3

# using the addition operator
res = val1 + val2
print(res)

val1 = 12
val2 = 3

# using the subtraction operator
res = val1 - val2
print(res)

val1 = 2
val2 = 3

# using the multiplication operator
res1 = val1 * val2
print(res1)

val1 = 3
val2 = 2

# using the division operator
res = val1 / val2
print(res)

val1 = 3
val2 = 2

# using the modulus operator
res = val1 % val2
print(res)

val1 = 2
```

```
val2 = 3
  #2*2*2=8
# using the exponentiation operator
res = val1 ** val2
print(res)

val1 = 3
val2 = 2

# using the floor division
res = val1 // val2
print(res)

"""Comparision Operator"""

a = 13
b = 33

 # a > b is False

print("a>b is ",a>b)
print(a > b)
# a < b is True
print(a < b)
# a == b is False
print(a == b)
 # a != b is True
print(a != b)
 # a >= b is False
print(a >= b)
 # a <= b is True
print(a <= b)

a = 5

b = 2

# equal to operator
print('a == b =', a == b)

# not equal to operator
print('a != b =', a != b)

# greater than operator
print('a > b =', a > b)

# less than operator
print('a < b =', a < b)
```

```
# greater than or equal to operator
print('a >= b =', a >= b)

# less than or equal to operator
print('a <= b =', a <= b)

"""We are 15 people,
Went to coffee shop.
It Costs 50 Rands per coffee.
Write a Python code to Calculate bill.

Example of using Operator
"""

num_people = 15
price_per_coffee_cup = 50
total_bill = num_people * price_per_coffee_cup
print("Total bill is",total_bill)

a = True
b = False

# Print a and b is False
print(a and b)

# Print a or b is True
print(a or b)


  # Print not a is False
print(not b)

a = 5
b = 6

print((a > 2) and (b >= 6))

print((a < 2) or (b != 6))

# logical AND
print(True and True)      # True
print(True and False)     # False

# logical OR
print(True or False)      # True

# logical NOT
```

```
print(not True)          # False

# Python program to illustrate
# is is not operator
x1 = 5
y1 = 5
x2 = 'Hello'
y2 = 'Hello'
# Output: False
print(x1 is y1)

# Output: True
print(x2 is not y2)

x1 = 5
y1 = 5
x2 = 'Hello'
y2 = 'Hello'

print(x1 is not y1)  # prints False

print(x2 is y2)  # prints True

a = 10
b = 20
c = a
print(a is not b)
print(a is c)

x = 'Hello world'

# Output: False
print('A' in x)

# Output: False
print('Hello' not in x)

print('Hello' in x)

"""input method"""

x = input('Enter your name:')
print('Hello, ' + x)

x = input('Enter your name:')
print('Hello, ' + x)

age = input("Please Enter Your Age: ")
```

```
print("\Age: ", age )

# Taking number 1 from user as int
num1 = int(input("Please Enter First Number: "))

# Taking number 2 from user as int
num2 = int(input("Please Enter Second Number: "))

# adding num1 and num2 and storing them in
# variable addition
addition = num1*num2

# printing
print("The sum of the two given numbers is " , addition)

"""1. Calculate the area of Circle where radius of the circle is 12 (Pi
*r*r)
2. Calculate the daimeter of same.
3. Calculate the area of triangle where length = 10, breadth= 40
4. Calculate area of square where its side=40
5. Calculate Simple Interest where Principle amount=2000 ,Rate=4 percen
t and Time = 2 years(P*T*R)/100
"""
```