print('Operators in Python')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

print('Arithmetic Operators')

x=int(input('Enter the values of x'))

y=int(input('Enter the value of y'))

print(x)

print(y)

z=x+y

print(f"Addition of two Numbers is {z}")

z=x-y

print(f"Subtraction of two Numbers is {z}")

z=x\*y

print(f"Multiplication of two Number is {z}")

z=x/y

print(f"Division of two Number is {z}")

z=x\*\*y

print(f"Exponent power of x to the y is {z}")

z=x//y

print(f"Floor of x to the y is {z}")

print('Comparision/Relational Operator')

print('Comparision Operator return True or False based upon Comparision')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

x=int(input('Enter the value of x'))

y=int(input('Enter the value of y'))

print(x > y)

print(x < y)

print(x == y)

print(x != y)

print(x >= y)

print(x <= y)

print('logical Operators in Python')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

print(3 and 10 and 0)

print(0 and 10 and 15)

print(1 or 5 or 0)

print(0 or 0 or 5 or 6 or 7)

print(not True)

print(not False)

print(not 5)

print(not 0)

print('Identity Operator in Python')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

x=''

b="Gurnani Hiren"

c=''

print(x is not b)

print(x is c)

a=' '

b=[]

print(a is not b)

print(a is b)

print('Membership Operator in List')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

x=int(input('Enter the value of x:'))

a=[11,12,13,14,15,16,17]

if x in a:

print('True')

else:

print('False')

if x not in a:

print('True')

else:

print('False')

print('Bitwise Operator in Python')

print('\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_')

x=int(input('Enter the value of x:'))

y=int(input('Enter the value of y:'))

print(f"Bitwise And Operation is :{x&y}")

print(f"Bitwise Or Operation is :{x|y}")

print(f"Bitwise not Operator is:{~x}")

print(f"Bitwiaw not Operator is :{~y}")

print(f"Bitwise X-or operation is :{x^y}")

print(f"Bitwise Right shift Operator on x:{x>>2}")

print(f"Bitwise Left shift Operator on x:{x<<2}")

print(f"Bitwise Right shift Operator on y:{y>>2}")

print(f"Bitwise Left shift Operator on y:{y<<2}")