**Python Task Day1**

**Task1**: Arithmetic Operators

1. Create two variables a and b with numeric values.

a=19  
b=7  
  
print(a,b)

2. Calculate the sum, difference, product, and quotient of a and b.

3. Print the results.

Sum

a=19  
b=7  
result=a+b  
print(result)

Output: 26

Difference

a=19

b=7

result=a-b  
print(result)

Output: 12

Product

a=19

b=7

result=a\*b  
print(result)

Output: 133

Quotient

a=19

b=7

result=a/b  
print(result)

Output: 2.7142857142857144

**Task 2:** Comparison Operators

1. Compare the values of a and b using the following comparison operators: <, >, <=, >=, == and !=.

2. Print the results of each comparison.

a=30  
b=18  
print(a<b)  
print(a>b)  
print(a<=b)  
print(a>=b)  
print(a==b)  
print(a!=b)

Output: False

True

False

True

False

True

**Task 3:** Logical Operators

1. Create two boolean variables, x and y.

2. Use logical operators (and, or, not) to perform various logical operations on x and y.

3. Print the results.

a=True  
b=False  
result=a and b  
print(result)  
result=a or b  
print(result)  
result=not a  
print(result)  
result=not b  
print(result)

Output: False

True

False

True

x=0  
y=1  
result=x and y  
print(result)  
result=x or y  
print(result)  
result=not a  
print(result)  
result=not b  
print(result)

Output: 0

1

False

True

**Task 4:** Assignment Operators

1. Create a variable total and initialize it to 10.

2. Use assignment operators (+=, -=, \*=, /=) to update the value of total.

3. Print the final value of total.

total=10  
total +=4  
total -=5  
total \*=6  
total /=7  
print(total)

Output: 7.714285714285714

**Task 5:** Bitwise Operators (Optional)

1. If you are comfortable with bitwise operators, perform some bitwise operations on integer

values and print the results. If not, you can skip this task.

a=14  
b=6  
result= a & b  
print(result)  
result=a ^ b  
print(result)  
result=a/b  
print(result)  
result= not a  
print(result)  
result=a<<2  
print(result)  
result=a>>2  
print(result)

Output: 6

8

2.3333333333333335

False

56

3

**Task 6:** Identity and Membership Operators

1. Create a list my\_list containing a few elements.

2. Use identity operators (is and is not) to check if two variables are the same object.

3. Use membership operators (in and not in) to check if an element is present in my\_list.

4. Print the results.

a=[10,20,30]  
b=a  
print(20 in a)  
print(40 not in a)  
c=10  
d=20  
print(a is b)  
print(a is not b)

Output:

True

True

True

False