**Operators**

Task 1: Arithmetic Operators

a=10  
b=20  
sum=a+b  
difference=a-b  
product=a\*b  
quotient=a/b  
print(sum)  
print(difference)  
print(product)  
print(quotient)

30

-10

200

0.5

Task 2: Comparison Operators

a=10  
b=20  
t=a<b  
k=a<b  
j=a<=b  
total=a>=b  
compare=a==b  
print(t)  
print(k)  
print(j)  
print(total)  
print(compare)

True

True

True

False

False

Task 3: Logical Operators

x=True  
y=False  
print(x and y)  
print(x or y)  
print(not y)  
print(not x)

False

True

True

False

Task 4: Assignment Operators

f=10  
print(f)  
f+=10  
print(f)  
f-=10  
print(f)  
f\*=10  
print(f)  
f/=10  
print(f)

10

20

10

100

10.0

Task 5: Bitwise Operators (Optional)

a=101  
b=111  
print(a & b)  
print(a | b)  
print(~ a)  
print(a ^ b)  
print(a>>b)  
print(a<<b)

101

111

-102

10

0

262210991356008795240790064625614848

Task 6: Identity and Membership Operators

My\_list={1,2,3,4,5,6}  
b=My\_list  
sun=(My\_list is b)  
sum=(My\_list is not b)  
arr=(My\_list in b)  
hk=(My\_list not in b)  
print(sun)  
print(sum)  
print(arr)  
print(hk)

True

False

False

True