**Demonstrate the use of Logical Operators in Python.**

**Code**

# Define some boolean variables

x = True

y = False

# Logical AND

and\_result = x and y

print(f"Logical AND of {x} and {y} is {and\_result}")

# Logical OR

or\_result = x or y

print(f"Logical OR of {x} and {y} is {or\_result}")

# Logical NOT

not\_result\_x = not x

not\_result\_y = not y

print(f"Logical NOT of {x} is {not\_result\_x}")

print(f"Logical NOT of {y} is {not\_result\_y}")

# More complex expressions

a = int(input("Enter the 1st Number"))

b = int(input("Enter the 2nd Number"))

c = int(input("Enter the 3rd Number"))

# Logical AND with comparison

and\_expr = (a > b) and (c> a)

print("({0}>{1}) and ({2} > {0}) evaluates to {3}".format(a, b, c, and\_expr))

# Logical OR with comparison

or\_expr = (a< b) or (c > a)

print("{0}>{1}) and ({2} > {0}) evaluates to {3}".format(a, b, c, or\_expr))

# Logical NOT with comparison

not\_expr = not (10< 5)

print("not ({0}<{1}) evaluates to {3}".format(a, b, c,not\_expr))

**OUTPUT:-**

