Casting and Type checking

```python
# Casting
a = 100
b = str(100)
c = int(100)
d = float(100)

#Type Checking
print(type(a))
print(type(b))
print(type(c))
print(type(d))
```

Write a Python program to calculate the area of a Square.

Take input of the sides using input()

Write a Python program to swap 2 numbers

```
print("calculate area of a quare ")
s = int (input ("Enter side s : "))
A = s*s
print("Area is ",A , " square units ")
```

done

Python Logical Operators

Logical operators are used to combine conditional statements:

Operators	Description	Example
and	Returns true if both statements are true	X < 5 and X < 10
or	Returns true if one of the statements is true	X < 5 or X < 4
not	Reverse the result, returns False if the result is true	not(X < 5 and X < 10)

Python Identity Operators

Identity operators are used to compare the objects, not if they are equal, but if they are actually the same object, with the same memory location:

Operators	Description	Example
is	Returns true if both variables are the same object	x is y
is not	Returns true if both variables are not the same object	x is not y

Python Membership Operators

Membership operators are used to test if a sequence is presented in an object:

Operators	Description	Example
in	Returns True if a sequence with the specified value is present in the object	x in y
not in	Returns True if a sequence with the specified value is not present in the object	x not in y