

Day-04

Date - 08/09/2025

5. Identify operators

is → Return True if both variable refer to same object

is not → Return True if both variables refer to different object

Ex: `a = [1, 2, 3]`

`b = a`

`c = [1, 2, 3]`

`print(a is b) # True`

`print(a is c) # False - Diff object (even if same content)`

`print(a is not c) # True`

6. Membership operators

in → True if elements exist

not in → True if elements does not exist

Ex: `text = "hello world"`

`print('h' in text) # True`

`print('e' not in text) # False`

`print('z' not in text) # True`

- Conditional statements - allows to make decisions in code. They check the conditions (true or false) and execute different blocks of code accordingly.

- Types of Conditional statements

- (1) if statement - Runs code if condition is True

Syntax: if (Condition):

Statement

- (2) if-else statement - Runs one block if the condition is True, another block if it false.

Syntax: if (Condition 1):

Statement 1

else:

Statement 2

- (3) if...elif...else - Check multiple condition one by one.

Syntax: if (Condition 1):

Statement 1

elif (Condition 2):

Statement 2

elif (Condition 3):

Statement 3

else:

Statement 4