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## Day-3

### Operators in python.

Variable declaration - letter / underscore

Keywords - reserved words. X-me keywords

Import Keyword

Print (Keyword, Kwlist)  $\Rightarrow$  if, else, elif, for, ...

print (len(Keyword.Kwlist))  $\Rightarrow$  35 Keywords.

Reassigning variable -

var = 5

var = "hello"

print(var)  $\Rightarrow$  overwrites the old value.  
new value is stored.

### Operators

$\rightarrow$  to perform operations on variables and values.

#### Types.

#### 1. Arithmetic operators

+, -, \*, /, //, %, \*\*

#### 2. Comparison operators

$\rightarrow$  to compare two values & return true or false  
==, !=, >, <, >=, <=

#### 3. Logical operators

$\rightarrow$  to combine multiple conditions.

$\rightarrow$  and (both true), OR (at least one true)  
not (reverse result)

#### 4. Assignment Operators

→ to assign values to variables  
=, +=, -=, \*=, /=, //=, %=, =

#### 5. Identity Operators

→ Compare memory locations

→ is - same object → a is b

is not - not same object → a is not b

#### 6. Membership Operators

→ check value exists in a sequence (list, tuple, string)

→ in - present in sequence → 'a' in apple → True

not in - Not present → 'x' is not in "apple" → True.

#### 7. Bitwise Operators

→ binary operation

→ &, |, ^, ~, <<, >>

### Conditional Statements

→ To make decisions and execute specific code based on conditions.

#### 1. if Statement

→ Executes code if condition is

#### 2. if-else

→ Runs one block if True, another if False.

#### 3. if-elif-else

→ Checks multiple conditions.

#### 4. Nested if

→ if inside another if.