

Day - 7

Strings - is a sequence of Characters enclosed in single ' , double " or triple "quotes

→ strings are immutable
Cannot be changed after creation.

Accessing characters - using indexing

→ -ve start from the end -
text = "python"

text[0] = 'P'

text[-1] = 'n'

String immutability - cannot change individual character

text[0] = 'M' # Error

→ To create a new string.

text = "M" + text[1:] # Hello

Deleting a string → del keyword - delete the entire string cannot delete characters.

del text

Updating a string → reassign a new string

text = "Hello"

text = text + "World" # Hello World

Concatenation and Repeating strings.

text1 = "Hello"

text2 = "Python"

Concatenation

result = text1 + " " + text2 .

Print(result) Combines two strings

Repeating a string

print ("Hi!" * 3) # Hi! Hi! Hi!

Formatting strings .

String formatting — insert values inside a string dynamically

→ using f string

→ using .format() method .

Print ("My name {3} and I am {3} years old.".format (name, age))

String Methods

len() → returns string length.

len("Hello") → 5

lower() → Converts to lowercase .

Upper() → uppercase , "hello".upper() → "HELLO"

Strip() → removes spaces from start & end .

"Hello".strip() → "Hello"

replace() → replaces substring

"apple".replace("a", "o") → "opple"

split() → splits string into a list .

"a,b,c".split(',') → ['a', 'b', 'c']

join() → joins elements of a list .

"-".join(['a', 'b']) → "a-b"

find() → finds index of a substring

'hello'.find('l') → 2

Count() → Counts occurrence of a substring.

"banana".count('a') → 3