

# Strings

☰ Chapter No.	3
▼ Status	Completed

## ▼ Concatenating Strings

```
#returns "abc"
"a, " + "b, " + "c"

"{0}, {1}, {2}".format("a", "b", "c")
```

## ▼ Slicing Strings

- `s[i]` returns the i-th character in the string s
- `s[start, stop]` returns the string s sliced from the index start (inclusive) to the index stop (not inclusive)
- `s[start, stop, step]` returns the string s sliced from the index start (inclusive) to the index stop (not inclusive), in increments of step characters

```
s = "abcdefg"

#returns "b"
s[1]

#returns "cde"
s[2:5]

#returns "defg"
s[3:]

#returns "ace"
s[0:6:2]

#returns "edc"
s[4:1:-1]
```

## ▼ Common String Operations

### ▼ `len(s)`

- Returns the length of the string

### ▼ `s1 in s2`

- Returns True if the string `s1` is present in the string `s2`, and False otherwise

### ▼ `s1 == s2`

- Returns True if the string `s1` is equal to the string `s2`

### ▼ `str(n)`

- Typecasts `n` into a string

### ▼ `.index(s)`

- Returns the first index where the given substring `s` can be found in the string or raises `ValueError` if the given substring is not found in the string

### ▼ `.isalnum( )`

- Returns True if the string is made up of alphanumeric characters only, and False otherwise

### ▼ `.isalpha( )`

- Returns True if the string is made up of alphabetical characters only, and False otherwise

### ▼ `.isdigit( )`

- Returns True if the string is made up of numerical digits only, and False otherwise

### ▼ `.isspace( )`

- Returns True if the string is made up of whitespace characters only, and False otherwise

### ▼ `.isupper( )`

- Returns True if the string is made up of uppercase characters only, and False otherwise

### ▼ `.islower( )`

- Returns True if the string is made up of lowercase characters only, and False otherwise

▼ `.startswith(s)`

- Returns True if the string starts with the given prefix string s, and False otherwise

▼ `.endswith(s)`

- Returns True if the string ends with the given suffix string s, and False otherwise

▼ `.lower( )`

- Returns the string with all alphabetical characters converted to lowercase characters

▼ `.upper( )`

- Returns the string with all alphabetical characters converted to uppercase characters