

FUNDAMENTALS OF PROGRAMMING

Week 2

Strings





DATA TYPES: STRINGS

- >> A **string** is a sequence of characters: letters / symbols / special characters
- >>> String can be created by enclosing characters inside a pair of quotation marks (single or double)
- >> string one = "This is a string"
- >> string_two = 'This is a string'
- >> Today, we will look more at the properties of strings



LENGTH OF A STRING

>> The length of a string can be obtained by using len()

```
len("programming")
11
```

>> There are 11 characters in the string "programming"



ESCAPE SEQUENCES

>>> Escape sequences start with "\"

>>> Escape sequences are translated to some special meaning when they appear in a

string

Escape character	How it formats
\\	Backslash
\'	Single quote
\"	Double quote
\n	Line break
\t	Tab (horizontal indentation)

>> File: Example1.py



MULTILINE STRING

- >> Usually, one string occupies one line
- >> Multiline strings can be done by using three quatation symbols (single or double)

```
text = """

| |
| Introduction to Programming |
| for international programs |
| |
```

>> File: Example2.py



STRING CONCATENATION

>> In Python, you can add two strings together by using sum +

```
text1 = "first"
text2 = "second"
text1 + text2
'firstsecond'
```

>>> You can also multiply strings

```
4 * 'Awesome'
'AwesomeAwesomeAwesome'
```