

Introduction to Programming with Python

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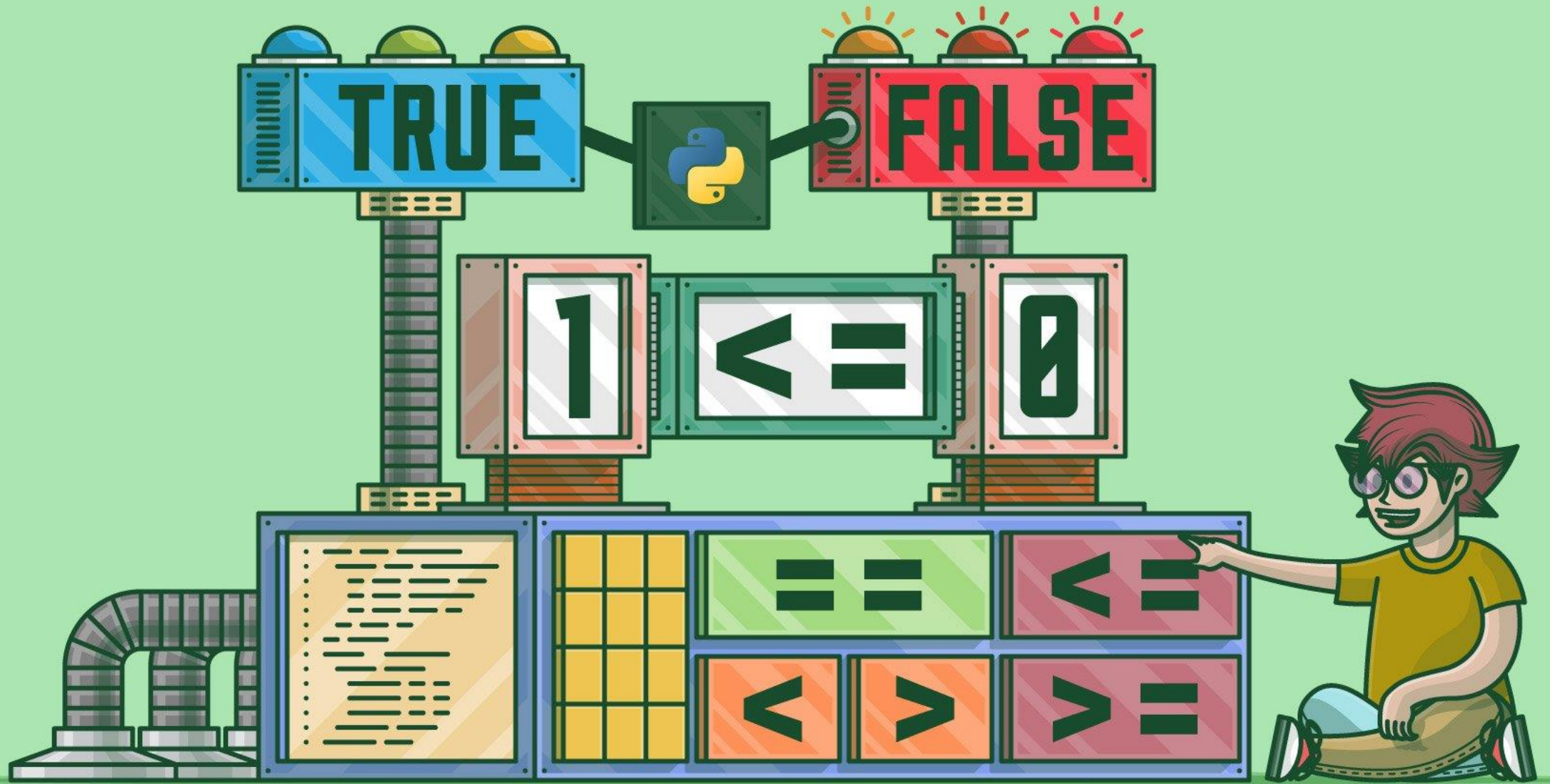
Amirkabir University of Technology
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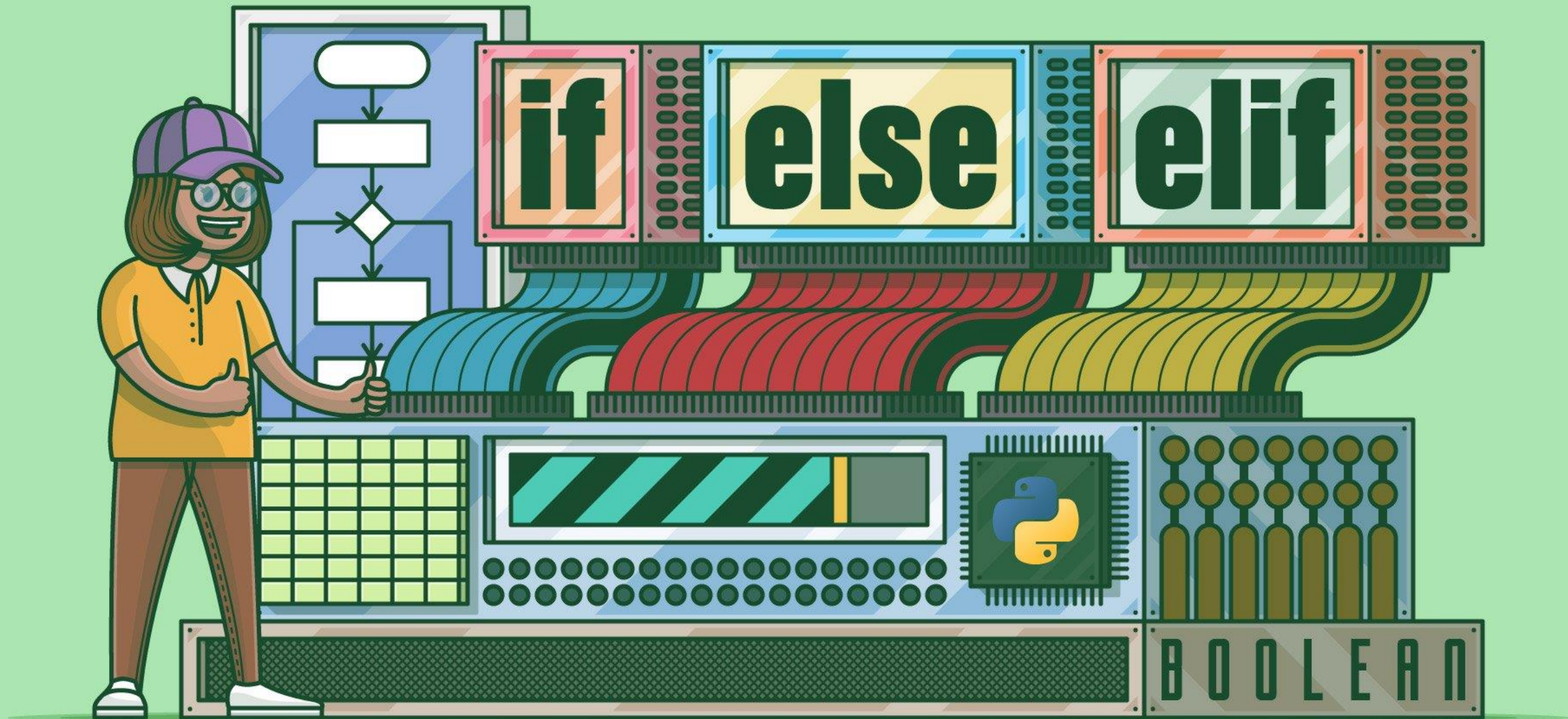
Summer 2023

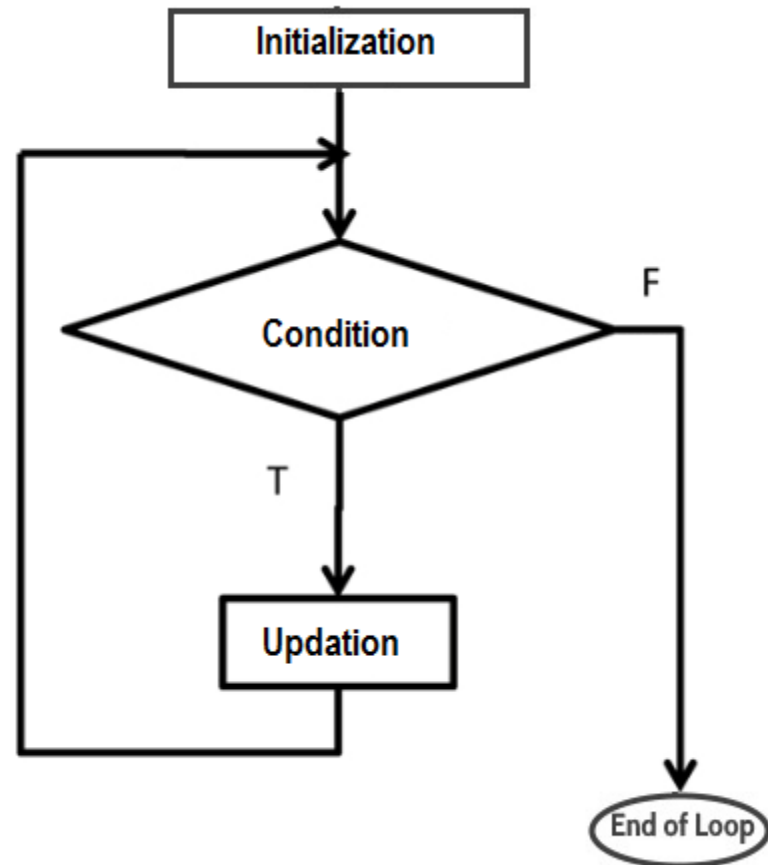


Previously on the









INDEFINITE

WHILE

$n > 0$

BREAK

CONTINUE

TRUE! TRUE! TRUE! TRUE!

STOP

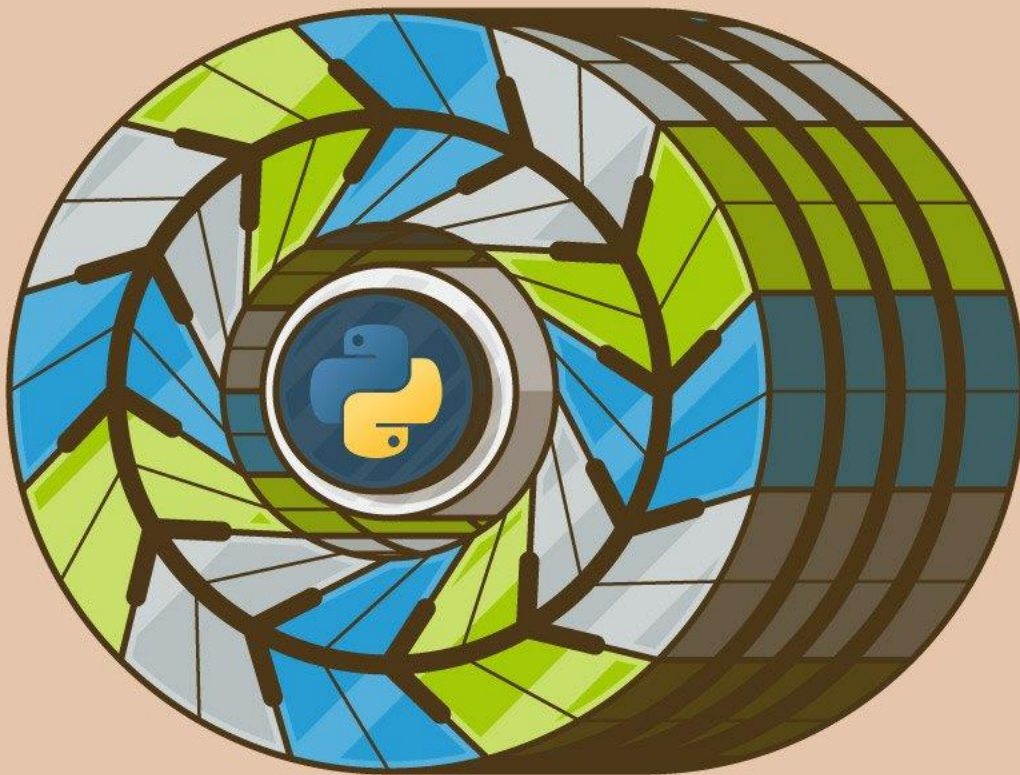
FALSE

**5
4
3
2
1
0**



DEFINITE

FOR



1 to 10

BREAK

CONTINUE

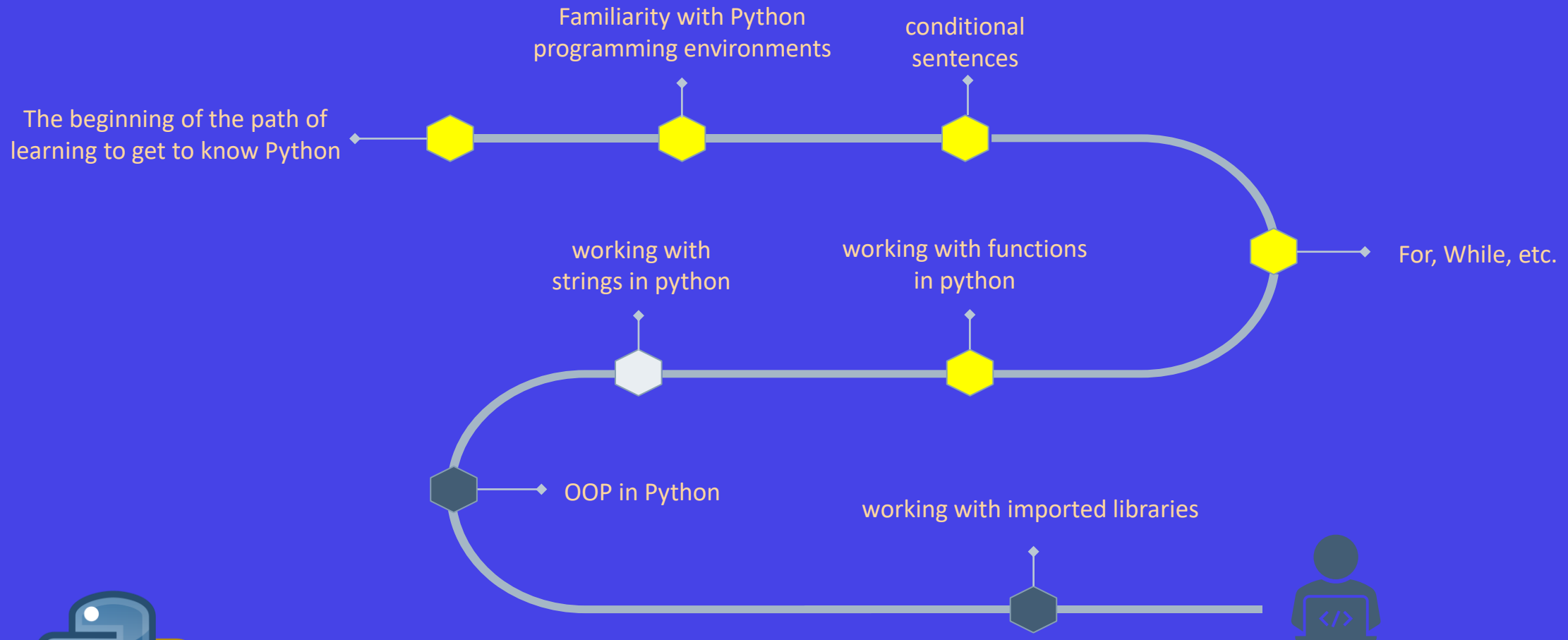
1... 2... 3... 4... 5... 6... 10

**1
2
3
4
5
6
7
8
9
10**

END

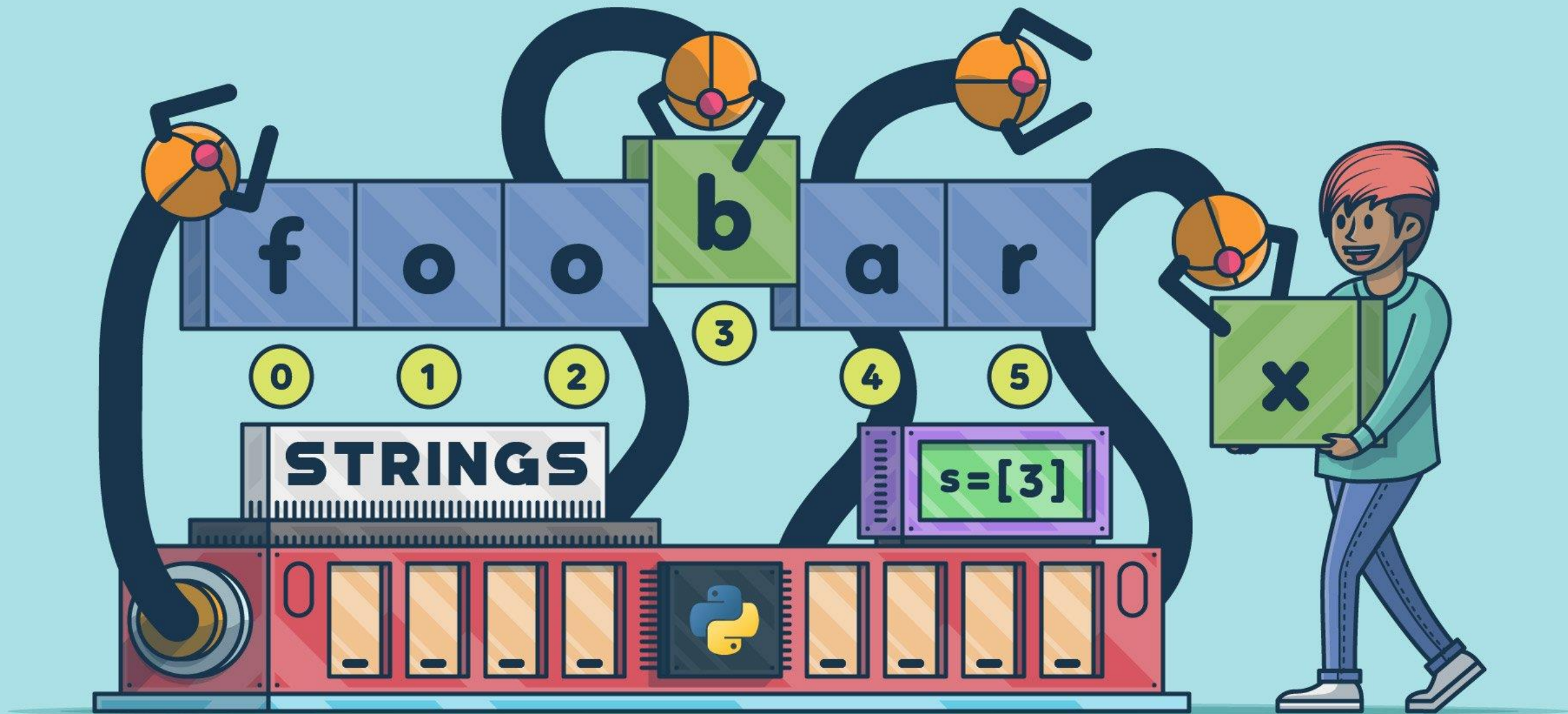


Course Outline



Strings

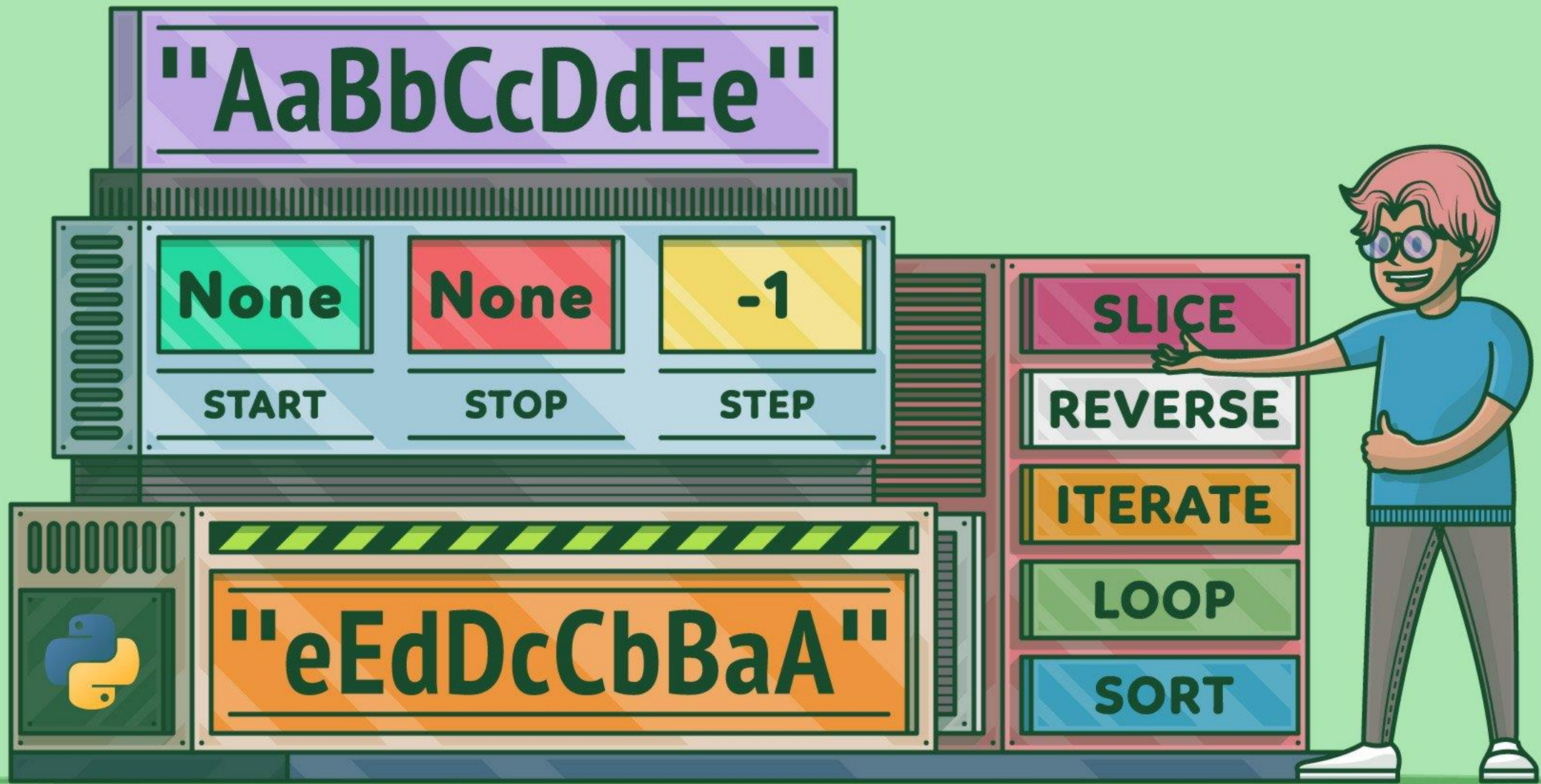
- 'hello' is the same as "hello"
- single quotation marks, or double quotation marks.
- Multiline Strings
- Strings are Arrays



Real Python

Strings

- Looping Through a String
- String Length
- Check String
- Check if NOT



Real Python

Modify Strings

- Upper Case
- Lower Case
- Remove Whitespace
- Replace String
- Split String

String Concatenation

Escape Characters

Code	Result
\'	Single Quote
\\	Backslash
\n	New Line
\r	Carriage Return
\t	Tab
\b	Backspace
\f	Form Feed
\ooo	Octal value
\xhh	Hex value

String Methods

Method	Description
<u>capitalize()</u>	Converts the first character to upper case
<u>casefold()</u>	Converts string into lower case
<u>center()</u>	Returns a centered string
<u>count()</u>	Returns the number of times a specified value occurs in a string
<u>encode()</u>	Returns an encoded version of the string
<u>endswith()</u>	Returns true if the string ends with the specified value
<u>expandtabs()</u>	Sets the tab size of the string
<u>find()</u>	Searches the string for a specified value and returns the position of where it was found
<u>format()</u>	Formats specified values in a string
<u>format_map()</u>	Formats specified values in a string
<u>index()</u>	Searches the string for a specified value and returns the position of where it was found
<u>isalnum()</u>	Returns True if all characters in the string are alphanumeric
<u>isalpha()</u>	Returns True if all characters in the string are in the alphabet
<u>isascii()</u>	Returns True if all characters in the string are ascii characters
<u>isdecimal()</u>	Returns True if all characters in the string are decimals

What we do next?

Contact US



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```
print("Have a nice day!")
```

