

Comparing characters

“Does it matter if they’re capitals or not?”

In Python:

“a” == “A” evaluates to False

Does your understanding of ASCII codes explain why?

Comparing characters

Yes, ASCII does explain why...

“a” = ASCII 097

“A” = ASCII 065

In Python comparison of characters and strings is done using ASCII codes, so:

097 != 065

Comparing characters

How does `aChar.lower()` work?

If `aChar` is an upper case letter it has an ASCII code of between 65 and 90

Lower case letters have ASCII codes of 97 to 122
- that's a gap of 32

So `aChar.lower()` simply adds 32 to the character code to convert "A" to "a"

Comparing characters

How does `aChar.upper()` work?

The gap is 32 between "A" and "a", but this time "A" is 32 less

So `aChar.upper()` takes 32 away to convert "a" to "A"

It's all done with numbers...