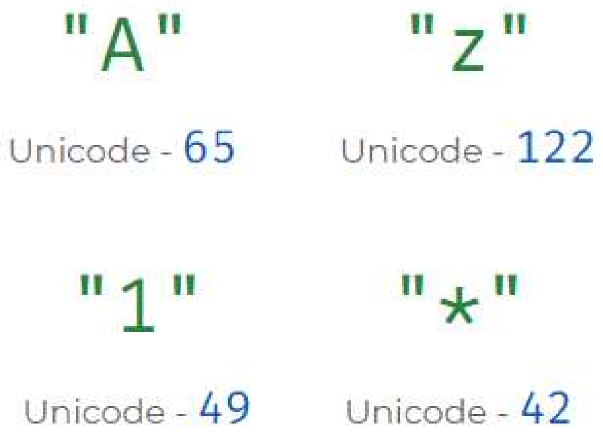
Cheat Sheet

Comparing Strings

Computer internally stores characters as numbers.

Every character has a unique **Unicode** value.



Ord

To find the Unicode value of a character, we use the

ord()

ord(character) gives unicode value of the character.

Code

PYTHON

```python
unicode_value = ord("A")
print(unicode_value)
```

Output

```
65
```

chr

To find the character with the given Unicode value, we use the

chr()

chr(unicode) gives character with the unicode value.

Code

PYTHON

```python
char = chr(75)
print(char)
```

Output

```
K
```

Unicode Ranges

48 - 57 -> Number Digits (0 - 9)

65 - 90 -> Capital Letters (A - Z)

97 - 122 -> Small Letters (a - z)

Rest -> Special Characters, Other Languages

Printing Characters

The below code will print the characters from

A to Z

Code

PYTHON

```python
for unicode_value in range(65,91):
    print(chr(unicode_value))
```

Output

```
A
B
C
D
E
F
G
H
I
J
```

Expand

Comparing Strings

In Python, strings are compared considering unicode.

Code

PYTHON

```python
print("A" < "B")
```

Output

```
True
```

As unicode value of

`A` is 65 and `B` is 66, which internally compares `65 < 66`. So the output should be `True`

Character by Character Comparison

In Python, String Comparison is done character by character.

Code

PYTHON

```python
print("BAD" >= "BAT")
```

Output

```
False
```

Code

PYTHON

```python
print("98" < "984")
```

Output

```
True
```

Best Practices

Naming Variables Rule #1

Use only the below characters

- Capital Letters (A – Z)
- Small Letters (a – z)
- Digits (0 – 9)
- Underscore(_)

Examples:
age, total_bill

Naming Variables Rule #2

Below characters cannot be used

- Blanks ( )
- Commas (,)
- Special Characters
  (~ ! @ # $ % ^ . ?, etc.)

Naming Variables Rule #3

Variable name must begin with

- Capital Letters (A – Z)
- Small Letters (a – z)
- Underscore(_)

Naming Variables Rule #4

Cannot use Keywords, which are reserved for special meaning

- int
- str
- print etc.,

Keywords

Words which are reserved for special meaning

Code

PYTHON

```python
help("keywords")
```

Output

```
Here is a list of the Python keywords.  Enter any keyword to get mor

False               break               for                 not
None                class               from                or
True                continue            global              pass
__peg_parser__      def                 if                  raise
and                 del                 import              return
as                  elif                in                  try
assert              else                is                  while
async               except              lambda              with
await               finally             nonlocal            yield
```

Expand

Case Styles

- Camel case: **totalBill**
- Pascal case: **TotalBill**
- Snake case: **total_bill**

Snake case is preferred for naming the variables in Python.

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