

The str Data Type

- Just like any other language , In **Python** also a **String** is sequence of characters.
- **Python** does not have a **char data type**, unlike **C/C++** or **Java**
- We can use **single quotes** or **double quotes** to represent strings.
- However **Python** recommends to use **single quotes**

char

cl = 'a'

Some Examples

```
>>> name='Sachin'  
>>> print(name)  
Sachin
```

```
>>> name="Sachin"  
>>> type(name)  
<class 'str'>
```

```
>>> name="Sachin"  
>>> print(name)  
Sachin
```

The data type used by **Python** internally for storing Strings is **str**

Some Important Points About Strings

- Unlike **C language** , **Python** does not use **ASCII** number system for characters . It uses **UNICODE** number system
- **UNICODE** is a number system which supports much wider range of characters compared to ASCII
- As far as Python is concerned , it uses **UNICODE** to support 65536 characters with their numeric values ranging from 0 to 65535 which covers almost every spoken language in the world like **English** , **Greek** , **Spanish** , **Chinese** , **Japanese** etc

Some Important Points About Strings

To quote the unicode website they are atleast 61 different languages supported.

<http://www.lexilogos.com/keyboard/index.htm>

```
Kakvo e Unicode ? in Bulgarian (30 letters)
Što je Unicode? in Croatian (30 letters)
Co je Unicode? in Czech (48 letters)
Hvad er Unicode? in Danish(29 letters)
Wat is Unicode? in Dutch(26 letters)
□□□□ □□ □□□□□□□? in English (Deseret)
□□□ □□ □□□□□□□? in English (Shavian)
Kio estas Unikodo? in Esperanto(31 letters)
Mikä on Unicode? in Finnish(29 letters)
Qu'est ce qu'Unicode? in French
რას არის უნიკოდო? in Georgian
Was ist Unicode? in German
Τι είναι το Unicode; in Greek (Monotonic)
Τί είναι τò Unicode; in Greek (Polytonic)
דאָס איז אונאיקאָד (Unicode)? in Hebrew
युनिकोड क्या है? in Hindi
Mi az Unicode? in Hungarian
Hvað er Unicode? in Icelandic
Gịnì bụ Yunikod? in Igbo
Que es Unicode? in Interlingua
Cos'è Unicode? in Italian
ユニコードとは何か? in Japanese
ಯುನಿಕೋಡ್ ಎಂದರೇನು? in Kannada
유니코드에 대해? in Korean
Kas tai yra Unikodas? in Lithuanian
Што е Unicode? in Macedonian
X'inhu l-Unicode? in Maltese
Unicode рэж юу вэ? in Mongolian
युनिकोड के हौ? in Nepali
Unicode, qu'es aquò? in Occitan
یونی‌کُد چیست؟ in Persian
Czym jest Unikod? in Polish
O que é Unicode? in Portuguese
```

Some Important Points About Strings

- If a string starts with **double quotes** , it must end with **double quotes** only .
- Similarly if it starts with **single quotes** , it must end with **single quotes** only.
- Otherwise **Python** will generate **error**

Some Important Points About Strings

```
>>> s="Welcome"
>>> print(s)
Welcome
>>> s="Welcome'
      File "<stdin>", line 1
        s="Welcome'
              ^
SyntaxError: EOL while scanning string literal
```