Python Beta 101

Python and Numbers

AL NAFI,
A company with a focus on education,
wellbeing and renewable energy.

Forty Hadith on the importance of Knowledge, learning and Teaching.

Hadith # 20 Learning

Abu Hurairah (may Allah be pleased with him) narrated, the Messenger of Allah (peace be upon him) said:

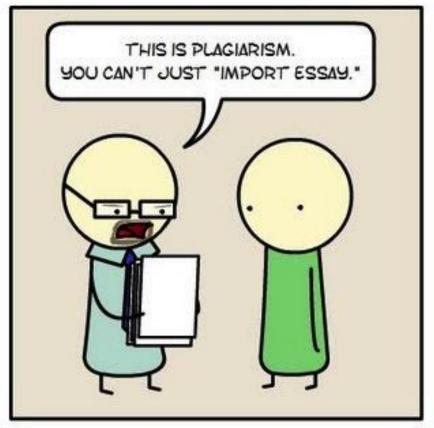
"Indeed! Acquiring knowledge is done through learning.

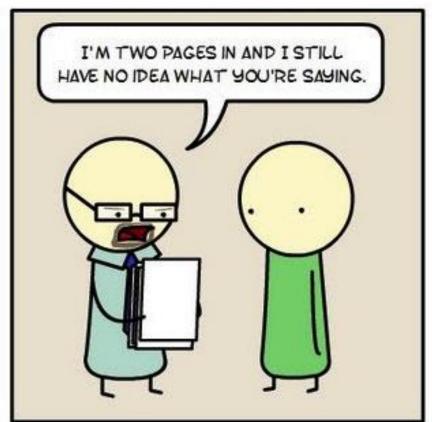
Indeed! Acquiring knowledge is done through learning.

And anyone who cares about good, it will be given him, and anyone who protects himself from evil, he will be saved from it."

(ad-Daraqutni, in al-Ifrad; al-Khatib)

Writing an essay in different languages





PYTHON

JAVA

Python and Numbers

There are two main number types in Python:

- Integers which are whole numbers.
- Numbers with decimals are known as floating point numbers.

 We will do advance math's in Python once students complete the 7 level of Math's as it relates to Data Science, ML, DL and Al at a later stage.

Assigning value to variables!!

In python we can assign values to variable names for reference purposes within our code

Allah_names = 99

Rules for variable names

- Names cannot start with a number.
- There can be no space in the name we MUST use _ for example
- muhammad faisal is incorrect as we can use muhammad_faisal which is correct.
- We cannot use any of these symbols
- : > < ? / "" \ !@#\$%^&~* as none of these symbols can be used when naming variables.

Best practice in Python

Best practice in Python is PEP 8

"Readability counts"

- The Zen of Python

Read the PEP 8

realpython.com/python-pep8

Rules for variable names

 Avoid using words that have special meaning in python like "list" and "str"

 Python uses Dynamic Typing which means we can reassign variables to different data types and its not a statically-Typed language.

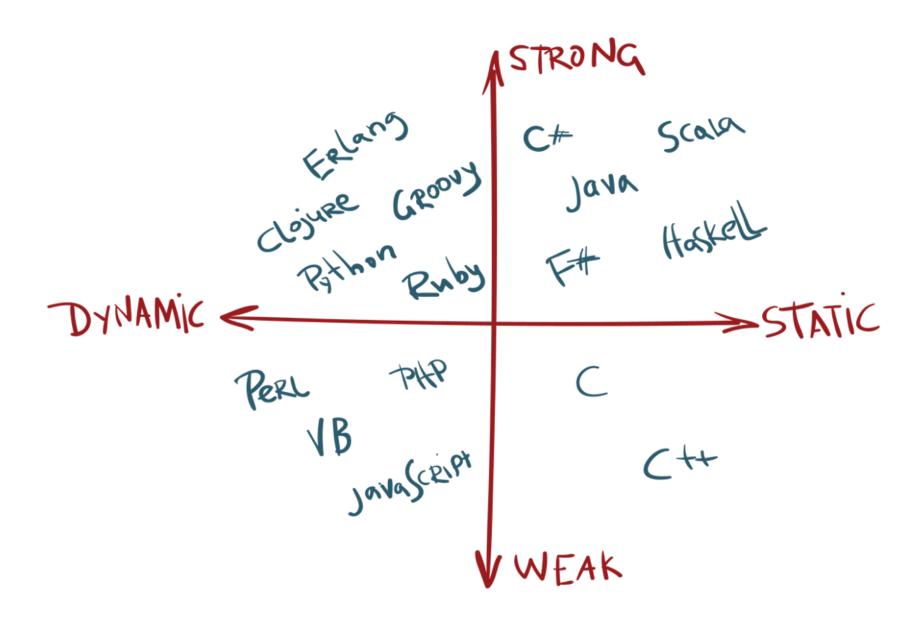
Dynamic typing in Python

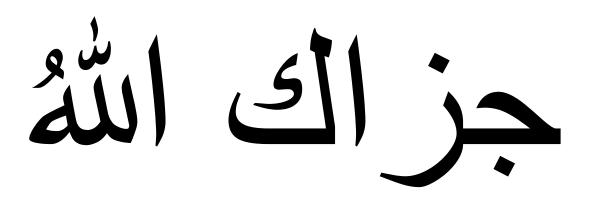
```
alnafi_portal = 1
```

```
alnafi_portal = ["cissp" , "oscp"]
```

Static typing in C++

```
int alnafi_portal = 1;
alnafi_portal = "cissp";
```





To ask questions, please logon to the portal https://alnafi.com/login/ and use your username and password. We will circle back to you in 2-3 business days inshAllah.