



# Python Workshop v1.0

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## Advancing Technology for Humanity

# **Topic**

- Introduction
  - Presenter
  - Topic of Workshop
- What is Python
- Versions of Python
- Basic Commands of Python
- Bare Minimum Code of Python
- Workshop Code (If We Have Laptops :P)





### Introduction, Presenter



- ► Iordanis Kostelidis
- ► Final Year Student, Informatics & Software Engineer at TEI of Central Macedonia
- ► IEEE Chair at Student Branch of TEI of Central Macedonia
- Junior Software Engineer at DataScouting











# Introduction, Topic of Workshop

- ►What... is Python
- Why... Python
- ►How... Python





# What is Python

- Python is an interpreted, high-level, general-purpose programming language.
- Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace.





# **Versions of Python**

- Python (1.0) 1991
- Python 2.0 2000
- Python 3.0 2008





# Meme of Day #2



"You can't just copy-pase pseudocode into a program and expect it to work"







# **Basic Commands of Python**

- ►aSimpleVar = int(5)
- otherSimpleVar = str("Hello World")
- ▶iAmArray = ['A','B','C']





# **Basic Commands of Python**

- print("Hello World")
- ▶aVar = input("Give me a param")
- ▶if x > 5:
   print(">5")
- for(myIndex in myArray):
   print(myIndex+1)





# **Bare Minimum Code of Python**

```
#!/usr/bin/python
print("IEEE Workshop v1.0")
```







```
#!/usr/bin/python
print("IEEE Workshop v1.0")
```





#### Workshop

```
#!/usr/bin/python
print ("IEEE Workshop v1.0")
print ("What's your name?")
name = input("My name is ")
print ("Hello", name)
```





#### **Workshop Code**

```
#!/usr/bin/python
print ("IEEE Workshop v1.0")
print("What's your name?")
name = input("My name is ")
print ("Hello", name)
print ("You want to calculate your passed and non-passed lessons?")
positiveAnswers = ['yes', 'y', 'yep']
negativeAnswers = ['no', 'n', 'nop']
answer = input()
if answer not in negativeAnswers and answer not in positiveAnswers:
    print("I don't understand, please run my again. Bye")
    quit()
if answer in negativeAnswers:
   print ("OK, good bye...")
   quit()
print ("TODO")
```





#### **Workshop Code**

```
if answer in negativeAnswers:
    print("OK, good bye...")
    quit()
print("OK, how many lessons you want to give me?")
lessons = int(input())
print("OK, i will remember it")
lessonRanks = []
for lessonIndex in range(lessons):
    print("Give me the rank for the lesson number " + str(lessonIndex + 1))
    lessonRanks.append(input())
for lessonIndex in range(lessons):
    print("Lesson No", lessonIndex + 1, "have rank =", lessonRanks[lessonIndex])
```





# **Workshop Code**





## Workshop Code [BONUS]

```
#!/usr/bin/python
from TableNumberAvg import table_number_avg
print("IEEE Workshop v1.0")
```



#### **Contact**



- ► IEEE Student Branch
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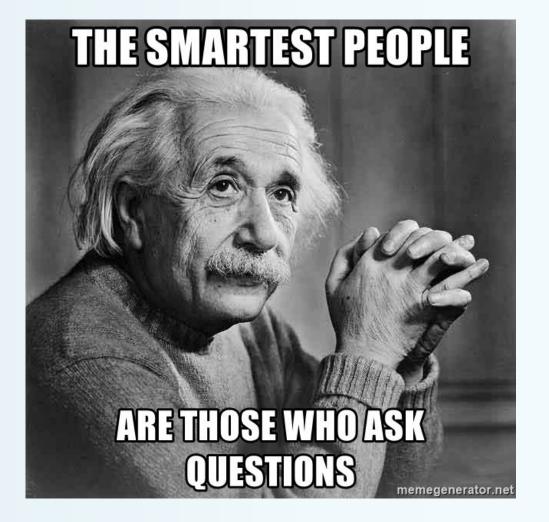




#### **Presentation and Code**

- ► GitHub Profile: <a href="https://github.com/lordanisKostelidis">https://github.com/lordanisKostelidis</a>
- Repository: IEEE-Python-Workshop-v1.0









# **Python Workshop v1.1**



- ▶Αρχές Οκτωβρίου 2019
- ▶2 ώρες
- ► JetBrains PyCharm CE
- Περισσότερες εντολές, δομές δεδομένων και φυσικά Debugger







# **Python Workshop v2.0 (IEEEXtreme Edition)**

- ► Μετά το v1.1
- Θα λύσουμε θέμα απο τον διαγωνισμό IEEEXtreme 12.0
- ►Προετοιμασία για τον IEEEXtreme 13.0







