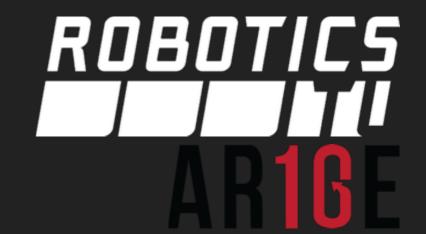


İTÜ ROBOTİK KULÜBÜ (ARIGE) EĞİTİMİ

PYTHON İLE PROGRAMLAMAYA GİRİŞ

GUIDO VAN ROSSUM (31 JANUARY 1956)





"Over six years ago, in December 1989, I was

looking for a "hobby" programming project that would keep me occupied during the week around Christmas. My office ... would be closed, but I had a home computer, and not much else on my hands. I decided to write an interpreter for the new scripting language I had been thinking about lately: a descendant of ABC that would appeal to Unix/C hackers. I chose Python as a working title for the project, being in a slightly irreverent mood (and a big fan of Monty Python's Flying Circus)."

- DropBox
- import this

PYTHON NEDİR? NEDEN PYTHON?

- ROBOTICS

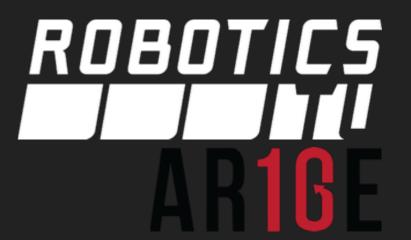
 A RIGIS
- Python is a widely used high-level, general-purpose, interpreted, dynamic programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java. The language provides constructs intended to enable writing clear programs on both a small and large scale.
- Yukarda geçen High-level, General-purpose, Interpreted, Dynamic kavramları ne demektir.
- Numpy, PyQt, Django, PyGame...

PYTHON NASIL TELAFFUZ EDİLİR?

Python

TEMEL KAVRAMLAR

- IDE
- Editor
- Compile, Build, Run.
- stackoverflow ve google



1. HAFTA - 28 EKİM

- print ("hello world")
- Veri tipleri
 - int
 - float
 - boolean
 - string
- Hesaplamalar
 - Işlemler(toplama, çıkarma, çarpma, bölme, üs alma, modulo)
- Yorum satırları
 - **>** #



INTEGERS (INTEGERLAR)



- 1513656 sayısının 13536 sayısına bölümünden kalanı kaçtır?
- > 924156, 19877354135119, 14 ve 52306 sayılarının birler basamağındaki rakamlarını bulun.
- Çevresi 57cm olan çemberin yarı çapı kaçtır?
- ▶ Bu çemberin 37.5°'lik dilimine "S" alanına dersek, bu S alanını hesaplayın.
- Çevresi 58cm olan bir başka çemberin 37.5°'lik diliminin alanına "A" dersek A, S'den yüzde kaç daha büyüktür.
- $f(x) = 48x^2 + 39 24$ denkleminin köklerini bulunuz.

STRINGS (STRINGLER)

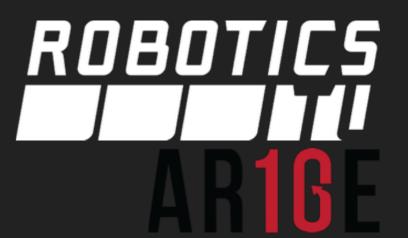
- my_string = "non est ad astra mollis e terris via", string with "+"
- print len(my_string)
- print(my_string[0], mystring[1:3]
 my_string.count(' ')
 my_string.index("mollis")
 my_string.find("d")
 my_string.split()
- my_string.replace("mollis", "luna")
- " ".join(my_string)
- print ("."* 10)
- strip()
 lstrip()
 rstrip()

ROBOTICS ARIGE

- my_string.endswith('j')
 my_string.startswith('g')
 my_string.isalpha()
 my_string.isdigit()
 my_string.istitle()
 word.isupper()
 word.islower()
 word.isspace()
- .upper().lower().capitalize().title().swapcase()

FONKSİYONLAR

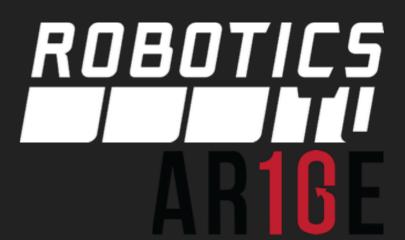
- def fonksiyon():
 - Bir şey yap
 - Başka bir şey yap
 - Sonuç ver
- fonksiyon()



İTÜ ROBOTİK KULÜBÜ (ARIGE) - PYTHON İLE PROGRAMLAMAYA GİRİŞ

ZAMAN

- from datetime import datetime
- now = datetime.now()



print ('%s/%s/%s %s:%s:%s' % (now.month, now.day, now.year,now.hour, now.minute, now.second))