#free and open source #interpreted في نفس المكان اللي بكتب فيه الكود = output بتظهر vinteractive# #easy to install #clean and easy #Error handling #Debugging is easy (Debugging is built with python) #cross platform (mac , windows , linux) *Expressive معبره ومفهومه #oop مع لغه تانيه = فيه ابلكيشن بيتعمل من اكتر من لغه = #support moudel and package #large set of lib #multi purpose #memory mangement and carbage collection بتمسح اللي ف الذاكرة اول باول #great community and growing fast python used for #web #games #hacking #ai #web scrabing #edsktop app #etc.... #Python syntax is case-sensitive. __ error does not cause the program to abort, but produces incorrect results. logical #What does the expression string1 + string2 do? Concatenates string1 and string2. #Python was created by ___ Guido van Rossum #What is used to define a block of code (body of loop, function etc.) in Python? Indentation Are there tools available to help find bugs, or perform static analysis? #Yes, PyChecker and Pylint. What does REPL mean in Python? #Read, Evaluate, Print, Loop print ("Hello , Python !") ; print ("i will make a game in the end of the coure") In [2]: Hello , Python ! i will make a game in the end of the course In [5]: # use to cooment in python = # #6/8/2022 to comment single line #print ("3omda") to comment multiline Out[5]: 0.000370919881305638 This example misses indentations to be correct. Insert the missing indentation to make the code correct: **if** 5 > 2: print("Five is greater than two!") #error In []: | # Dealing with Data #our apllication contains code and Data #code in the line manage and deal with data #to structure with data we need categories (num , string , bool) #Data is stored in computer memory #we use variable to refer data # code using data to perform any operation #some Data types In [11]: #all data in python is object # to print type name of data use # type () print (type('TRUE')) print (type(True)) print (type (51)) print (type ([4.2 , 4 , 5])) <class 'str'> <class 'bool'> <class 'int'> <class 'list'> In [12]: #Variables myname = 'Ahmed' print (myname) Ahmed MYname = 'Ahmed' In [13]: print (MYname) Ahmed my_name = "Ahmed" print (my_name) Ahmed #not valid variables In [24]: 100name = 'ahmed' #error # my name = 'ahmed ' #error # -myname = ' ahmed ' #error # _myname = ' ahmed' print (_myname) #run ahmed In [26]: #cases myname = 'ahmed' #general case myName = 'ahmed ' #camel case my_name = 'ahmed ' # snake case print (myname) print (myName) print (my_name) ahmed ahmed ahmed بعرف بيها الكلمات المحجوزه ف بايثون # (help('keywords') Here is a list of the Python keywords. Enter any keyword to get more help. False class from continue global None pass True def raise and del import return elif as in try else while assert is except lambda with async await finally nonlocal yield break for not In [30]: a , b , c = 5 , 4 , 3 print (a) print (b) print (c) 5 4 3 #Basic Defenition #source code : original code you write in computer #translation : converting source code to machine language #comppilition : translate code before run #run time : period app take to excute commands #interpreted : translate code line by line In [31]: #seQANCe space \ # \b : back space بتمسح الحرف اللبي قبلها print ("Ahmed\b Emad")

Ahmed Emad In [33]: # \ بت scape newline print ("my name \ is \ ahmed emad") ahmed emad my name is In [43]: #escape qute ' ' "" print ("Ahmed \"emad\"")

print ("my name is ahmed\n i am a programmer")

my name is ahmed i am a programmer print ('123456\rabcde') بيطبع = r اللي بعد حرف

ويشوف عددهم مثلاً 5 ويمسح اول 5 ارقام قبل الحرف

In [51]: #carrage return abcde

\t äilmo print ("Ahmed\tEmad") Ahmed Emad

In [52]: #horizontal tab

In [57]: #concatenation + my_firstname = 'Ahmed' my_secname = 'Emad'

print (my_firstname + my_secname) print (my_firstname +" "+ my_secname) print (my_firstname +"\n" +my_secname) AhmedEmad

Ahmed "emad"

In [48]: #\n : print multi line

what is python ?

why python ?

#python is a programming langauge

Ahmed Emad Ahmed Emad In []: first day to learn python 6/8/2022