"week 1" PAthon 1 To Print a message to make comment >Print(" >Print ('') Variables. it must has aunique name. To Print a variable You shouldn't be Put the name of variable in grates " " imagine We have variable named age = 21 WPrint (age) (4 str(age) +) doesn't give space. 2 Print (" yourage = " rager " years") what is Str it is called type casting to it is called type casting ailb its String 3! 3 Print ("Your age "@age 6" years") give me space Common Way 4) Print (F" your age" Zage? years old") doesn't give spale. > data types Winteger . رقم صحيح بدون كسور 2) floats رقم يوجد به لسور 31 String : Series of text موسى من الحروف * it can Centain numbers email - Brokz@gmail. Com we use it 41 Boolean: 1 True or False " Goisi Make sure you don't write them

if we want to do Multiple assignments X, y, Z = 1, 2, 3 To make Multiple variable have the same vatue. X= 7= Z= 1 Type casting: Process to Convert a value of data type To another type: (string, integer, Floatsbackern) Explicit us Impliciat - To get the data type use method age (variable) > To do Type Casting ag=21 age = Plod lager ___ 21.0 Gloset = 9Pa = 3-8 9Pa=int(9Pa) __ 3 we can use it check gpa=bool(gpa) ___ True. if the user entered any 12 رقي هيدول ل True ما مادا 0 eto to thing. Express implicit X=2 J=2.0 X=X/X X = 1.0REGOD



> USer input round (variable). معرب الرقم للعدد رن معرب الرقم للعدد رن name = in Put ("Enter your name : ") من العلامات العربي To store in Put لومصرتش و ۲: pib Math: arthimetic operators هقوب القرس addition العادى بتاعنا Multiplication-/ division € Subtraction ** 2 E Power of two 0/0 E - reminder camel 3 it famous to Knowif number is odd or even > built in functions and product and II round . cround number to the nearst integer number ZIabs it gives positive number 131 Pow (4,3) \$ 4 Power 3 (4)3 19 Max(xxy;z) turnes Max between two numbers or three (5) Min(xy) turnes Min between two or three numbers. It to use all these and Mare we need to import Meth. مغرب كلرتج الاعلى طيما import Math. (Math. Pi), (math. e), (math. sqrt1), (math. ceils)) (math floor ())

ado some Code if only if some Condition is True" > if statements :- if it is True something will happen if not other thing will happen. We can write too if age>= 18: many elseif state لے اصرط اللی صبحیل لوالوط but so an ond e elif eter: ageco solotome thing use. else: > logical operators Dand: check For two or more are true-OOR : check if attleast one is true 3 not: A True if Condition is false False if condition if True String methods. [Len (String): returns number of Char [2] - . find("): Search returns number of the Char 3 -- · rfind ("): returns Last occurance of Char (apitalize(): returns string (apital) our on do 51 -- upper() : make all strictor upper case 6 - - Lower C) : Make an Char Lower case [7] -- is digit (): return if there any digits returns True if all String is digits (8) - isalpha(): if all string is Characters. [9] - Count (" "): return number of occurrence of the char I Searchad [10] ... replace (" ", " ") : chang char by char REOD

> String indexing indexing accessing elements of asequence using [7 Start : end: SteP] String CLJ or String [0:47 exclusive. String [:4] > 4 inclusive String [S=] From inclex 5 to the end of String [int] _ char From String. will reverse String. > Format specifiers. Ouriable = 26 round to two digits Variable: 10 roll où ipperso del val Teros on left to reach 10 digits 4 Oviable:010 variable = < 10 left Justified. ouridole :> 10 righ 11 11 variable: 10 Centeral. Oviable: + any Positive has @ any negative has @ Ouriable: , Thousand speratur. > While loops excute some cade while condition. it can do forever remain Strue. while cendition: continue _ slepthistep break -stploop - for laups: excepte black of orde for Fixed number of items. For x in range(1,11): industre exclusive.

To Print more of one variable in one line use. / / Print (Xs end = "") Nested loops in python. Hath time outer loop: import time. innerloop: time-Sleep() For x in range (3) for & in range (15to): Print (g) end = " ") 123412341234 News