Python

Lesson-1 Modules, Comments 1 Pip

what is Purguaming?

that the who was third on English to Communicate with which which with the war a Brognamming language like Python to dominance with the computer.

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What is Python ?

Python is a simple and easy understandable language which feels like reading simple english. The Prendo sode nature of python makes it easy to have and understandable by buginners.

Zeatures of Python.

- Eary to undurationed Less development time
- Zue Ropen Sounce
- High Wed language
- Portable
- other straw at not c-

* whiting Zinst Python Bugguam

print ("My name is Branav")

-> Print is a function.

output: My name is Phanav.

Python . I (file name)

Modules.

A module is a file containing code edution by some body clar (usually) which can be imported and used in our puopeams

Pip

Pip is the package manager for python upon some or pip to install a module on your replane:

-> pip install flesk installs flesk module

Types of Modules

Thus one two types of modules

1) Built in modules -> Pur installed in Python

8.) Exturnal modules -> Need to install using

9 ip.

agrof built in modules are 05, abc, etc ag of external modules are termanpless, plant et: * Using Pathon as a Galculator We can are python as a calculation by typing "Python" + I on the terminal La Anim opens REPL (Read Evaluate Print Loop)

* Comments dante gointemor stirle at bern ever expended the purguammen doesn't want to execute. Ly can be used to mark author name, date etc.

* Types of comments 1) Single line comments -> written using '#' 2.) Multi line comments -> whiten using " Comment "

Install an external module & use it to perform an operation of your inturt.

301. Groogh -> Playsound module, open terminal > type: "Pip install Playround "

> copy path from module and parts & Provide the path using 'Il' not single 'I' becoure it is an except function. (Raste, full Path of W63.)

Q white a python purguam to puint the contents
of a directory using of module search
online from the function which does that.

501 Google > as module Print content of a
directory
u (05 list direct)" > stack overspoon

code

impart os
Print (os list direct)

Lesson -2 Vaniables and Datatype

A variable is the name given to a memory location in a punguam.

-> Solentifiens = Cls/function/ Variable name.

* Data Types

Prumarily there are following date types in bathon.

- 1.> Integens
- 2-> Floating point numbers
- 8-> stuings
- 4.> Booleans
- 5 > Non
- -> under "()" string is given by elefault

Python is a language that automatically identified the type of data for us:

a = 71 → identific a as class (int)

b = 88.44 → identific b as class (float)

name = "Handy" → 9dentific name as class (9th)

Puinting vaniables

Print (type(a)) -> (int>
Print (type(b)) -> (class 'float')
Print (type(name)) -> (class 'str')

* Rules for defining a variable name

- -> A vouiable name can contein alphabets.

 digits and undurenus
- -> It voviable name can only stand with an alphabet
- typile a still trade the same adapted A c
- man ilanuor o variation .
- > vasiables are care simplifierent variable names.

* Gramples of a few vouriable names are:
Premar, ones, seven_, -seven etc.

* Openatous in Python

1.> Anithmetic openations => +, -, *,

2.) Assignment operators => =, +=, -=

8 > Composition operators => == , 1, >=, <,!=

4.) Logical openation = and, ox, not.

1.> Q=3 b=4 Print(" The value of 3 +4 is", 3+4) output: 'T'

2.> Q = 34 a+=2 Print(a) output: '36'

3.) b=(477)
Prunt(b)
Output: Falx (nutuum Boolian)

(-) bool 1 = 7 min

bool 2 = 7 alm

puint (" 7h value of bool 1 is", (bool 1/2))

Puint (" y) ", (bool 1 on bool 2))

Puint (" y) ", (bool bool 2))

output: Palse Thrue

not is only used only for one variable)

wanking: 'and' > naturns 'bur only if both carrs one bur cehr seturns 'fahre'

(osi) -> returns true if any one is

inot' -> severy the condition.

* type () function and type casting

type function is used to find the data type of a given vousible in python

· a=31 type(a) => class rint>

· b="31"

type(b) => class(stu>

eg: a="3534"

a=int(a) ># trying to change it's

closs from str to int

Print(a+5)

A number can be converted into a string and Vie voura (if pomble) Those one many functions to consod on data type into another

Stul 31) = "31" -> Integen to stuing Convension int ("32") => 32 -> Stuing to 6th Integer Convey Sion float (32) => 320 -> Integer to float Conversion -

or and so on. Hora ('31" in a string literal and 31 a lareth surmun

* input() function this function allows the user to take input from the try board as a string

a = input ("enter name" -> 8/ a is "Puanar", the user entired us PHANAY.

English to to that the at traducique is the in always a rbing (even if the number is bustone varue, "48" in a fl (bustone 34

a = input (" Center name") Print(a)

output: 'Name you entered'

QI would a python program to add two nos. 0 = 30 b = 5 Print (" The Sum of a & b is", a+b) write a program to find oumaind or when a no. is divided by 2. a=458 b=15 Print ("The remainder when a is divided b is", a7-b) Check the type of the variable assigned using unput () function. a = Phanav 501 Print (type(a)) USE companision openators to find out untille a given vouiable 'à ir quater than 'b' on not a = 2 , b = 4 801. 0=8, 1 p=1 Print (arb)

Welite a Python program to find arg of two numbers entered by the user.

a = input (" enter first no.") b = inpot ("emter second no.")

a = int(a)

b = inf(b) # becaux value input is Sty iso change it to int

019 = (0+6)/8

Print (" The average of a s b is"; avg)

write a python program to find average of two numbers entired by the uses.

a = input (" conter a number: ") 501:

g a=int(a)

Square = Cxxa

Print (" The racuon of a in", square)