History !

- · 'quido Van Rossum' invented bython priogramming language Pn 20th of february 1991.
- The python came forom a comedy circus which was telecasted on BBC & the name is 'The Monty's Python Flying Circus'.

Python is general peur pose, O bject O wiented, sveibting, dynamically typed, high level and interpreted.

Features of python

- 1. Dynamically typed programming language: Ineaeu of of this there is no need to declare the data type of a variable and we can change the values of variables at any time.
- 2. Interpreted programming language:

Compiler

- · It is used to compile & execute the program
- entire set of code once eq at last it will excent
- · Because of the above state at the end of execution, will be having a bunch of everous, it will make the programmen difficult to understand & debug anapp

Interpreter

- · It is used to compile & execute the program.
- · The interpreter will compile & escecute cach & every line of code simultaneously.
- · Since the interpréter exerciter line by L'ne it will make the programmer easy to ted an application
- 3. Execute Une by line suipting language.
- 4. Posdable: It will supposed platforms like Windows, Linux, Mec.
- 5. Open source programming Language.
- 6. June Source platform.

- 7. Python has easier syntax & less no of Individion
- 8. Python supposeds Indentation (space)
- 9. Care generative parogramming language: Uppercare alphabet differ farom lower care alphabet based on the ASCII values.

Ascii - American standard code for information Interchange

- · The common difference among lowercare alphabet
 Ascii value & uppercare alphabet Ascii values.
- · It we add 32 to the uppercae alphabet Ascis value we will get Ascis value vof lowercase asphabet.
- If we subtract 32 from lowercau alphabel Ascu value we will get Ascu value to f uppercase alphabet.
 - 1) ord () The function will take chan as P/P

 L) Ascil & it will return Ascil value of

 that character.
 - 2) char (1) This function will take Ascella as ofp.

A=65, B-66, C-67, D-68 a-97, 6-98, C-99, d-100 conversion of capital to lowercase asphabet

Z='A' # Assigning value to variable

X = 0 std (Z) # As circulated of chanacter

y: X+32 # As circulated of derived chan

u = chs (y) # derived chanacter

print (u) # print

-> 'a' # Output

2:'A'

punt (chr (ord (x)+32))

punt (chr (65+32))

punt (chr (65+32))

punt (chr (9+))

γα — Output.

Conversion of lower to capital alphabet.

X= 'a' # Assigning value to variable

Y= 0 xd (X) & Ascii value of character

y= x-32 & Ascii value of character

U= cher(y) & desired character

print (u) # print

-> 'A' # Output

72'a'
puint(chu (ond (2) - 32))
puint(chu (ond (12') - 32))
puint(chu (ond (12') - 32))
puint (chu (65))
puint (14')
h' - Output

a Hababa Maralan and and

uppercase to lowercase alphabet using chare & oxide function.

(CE+('A') brind ('A')+32)) print (charload (181) + 82)) pount (chy coud ('c')+32)) pow'nt (chr (ood ('o') +32)) puint (chr (oved ('E') +32)) point (cher cond ('F')+32)) print (chy (ond (101) +32)) pount (che (ood ('H') + 32)) powint (cho (ood ('I') + 32)) powint (chr (oxed ('J') +32)) pains Teherroad (1K') +32)) powint (chartond ('L') +32)) powint (charcosol ('m') +32)) ((ce+ (.m.) prod (.m.) +35)) pount (chi tood (101)+32)) point (du (ond ('P')+82)) pount (chy (oved ('9')+32)) parin (char (oxed ('R')+32)) pount (cher (ord ('s') + 32)) paint (char (oved ('T') + 32)) Dany (cya (ong (, 0,) + 35)) point (charcoard ('u') + 32)) point (chylored (w)+32) posint (char (oad ('x') 132)) point (che (ond ('y')+32)) point (chr (ood ('2')+32))

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point (che cosed ('a') - 32)) paint (cha (oad ('b') - 32)) point (chy (ood ('c') - 32)) ((se - (.p.) prior hy) trined print (chr (ord (c) - 32)) point (chritorid (++1) - 821) print (chir (oud ('g') - 32)) banut Lepalong (. 4.) - 35)) point (che (ond ('P') -32)) point (cher (oad ('j') - 32)) paint (charload ('k') - 321) ((26-(.r.) pro) ryad Daring (cya Cond (, w.) - 89) powint (che coad ('n') -32)) (18E - (.O.) pro) reps (10) - 35) print (cha (ond ('p')-32)) bring (cha (orag (, d.)-351) powint (chuloud ('4') - 32)) powint (cha (ound ('s') - 32)) poving (chr (ood ("+1) - 32)) puint (chy Coad ('U') -32)) ((28 - (·v.) pro) rap) funca pount (cher (oud ('w) - 32)) paint (cha (oad ('x') -32)) point (char Coad ('y') - 32)) (cee-(is,) produptined