Python-tutorial II [float/str/complex] * fundamental types of boot/list/tuple · You don't need to declare variable type in python unlike other puo lang. · if you want to know kind of data stored in any variable (say i), then use, type(i) int/float/stx comple · if you want to declare string then use, Madhu or "Madhu" complex -> i=1+7; there are some inbuilt functions in Python. king = 6 (ing is inbuilt func.) Some inbuilt functions work with (), & some · No know address or id of a variable inside memory we use, id(k) true false)

i = false > type(i) = bool (boolean) value of frue (1), value of false (0), so, True + True = 2, False + False = 0 "MADHU"S", "MADHU'S", 'MADHU'S' MADHU'S'

Error X

"MADHU'S", 'MADHU'S' MADHU'S' "" MADHU"S"", I+ "MADHU"

interpreted > (10) is interspected as well as complied depends on library/package linstallations we use. · (I+"MADHU") ('I'+"MADHU" = 'IMADHU'). Typecasting: str(1)+"MADHU = 1MADHU. integer -> string (Passible) Gen: int('62')+"MADHU" = 62MADHU". G string (string of char.) - integer (Not Possible) Multiplication operator: "MA" * LO = MAMAMAMAMAMAMAMA 4 * * Lo = 1048576 (4 * * Lo = 410) shift + tab = details of function used.
 to access any variable (= 5 < print(i)) · Boolean evaluation: (AND, OR, NOT). True or False = True ... (Loro = 1) not True = False (I=0)True is True = True (+ is 1 = 1) True is False = False (Liso=0) True * False = False (1 * 0 = 0 True - False = True (1-0=1 True / False = error (we get this result in Python supports scripting & OOPS.

Note: mind indentation while weiting Pythoon foreg (don't worry its automatic). · Corditional statement : (if, else) (if, else ane keywords). if i==10: (in other lag we use {}, here use :) pass (pass is keyword, when you don't want to write body) (" use () on don't no matter) elif i€3: print ("choice") print (" default statement") id(i) = 1342id(i)=1538 Nested if/else & S = "MADHU" if True: (True means if will be executed) if s = = "sudh": print("Yeah") else : print (" Norah")

```
function -> we give some data & secrive output
  key-word ->
   else:
      Print ("Haan")
   [ Output: Maah].
   i=3+8j
  j= type(i)
  type (j) = type
   Lists: store multiple data-set at a time.
            list = 0  k = list ()
list = type(k) = list
   type(k)=list
  homogeneous / heterogeneous
  LR -> 0 1 2 3

k=["MADHU", 5, 8.32, 2+7;

-4 -3 -2 -1 €
  k[2]=5, type(k[3])=float
  k[1:03 = [5, 8-32] ([1:2] = Lto 2 index)
   L[0:3:1] = ["MADHU", 8.32]
   Start end gab
2) k[: 3:2) (by defalt from starting O-index)
   k(3:1:1) = [] (blank)
    k (3:L:-1) = [2+7j, 8.32 3]
    5="MADHU" -> 5[::-1]= 'UHDAM'
    K = ("MA", "SU", 3, "TA", 5.82]
    for i'nk:
                                    output !
          type(i) == Str:
```

