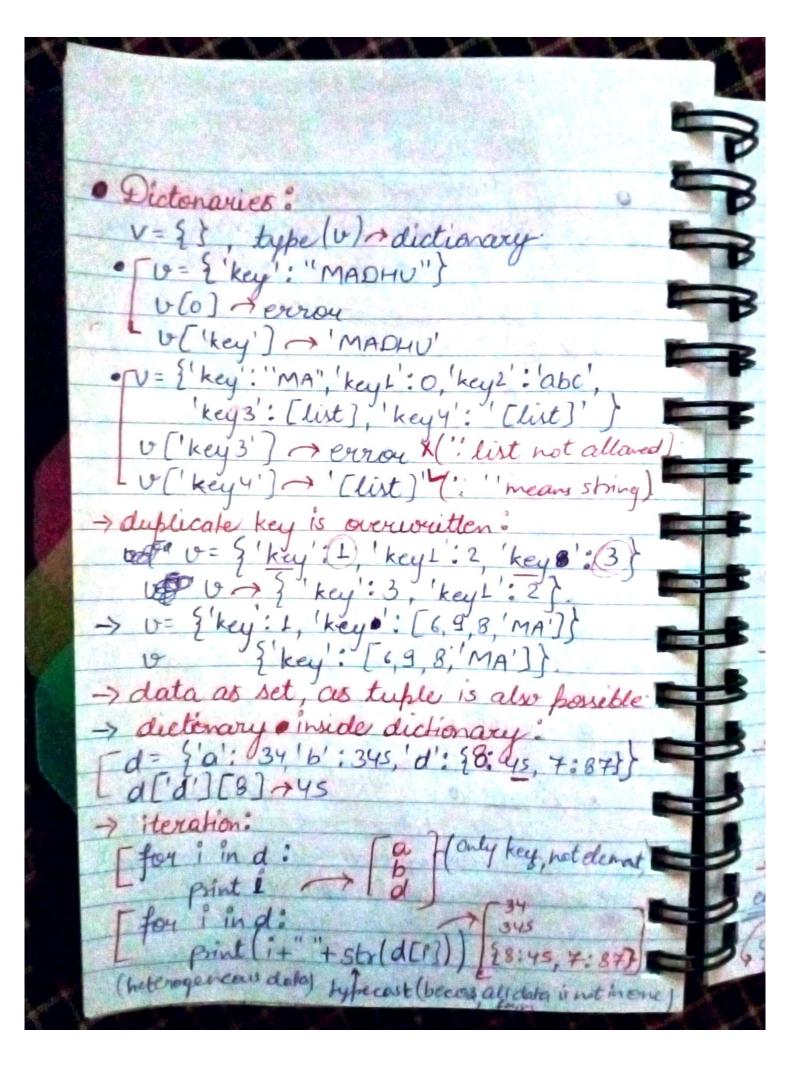
* immutable - can't be changed (fixed).
(lists are mutable, hiples gree not). Kython-Tutorcial 3 almost Similar to list but its immutably C=(), type(c)=tuple. * almost all the operations of list are possible here too, like reversibility, extracting data etc. but replacement 13 not possible this is called immutability! Do, tuples are used where we need fix data like days in a week en: c=(2,3, Madhu, 3+4). C [0]=2. but, c[0]= Jain' >c error -> C. count (3) -> 1 (as 3 affears only > C. Index (3+4j) > 3 (as 3+4j is available at Like, if we have any data multiple times & we use index operation so, It will give index of first position of that farticular data.]. as type (a) = type a=4,5,6,7 a > (4, 5, 6,7) means

-> tuple doesn't supports appoint. a, b, c = 4, 6, 2. I one to one maffings b ~ 6 Jassign multiple J100 C -> 2 variable in single line > rested-tuples: a = ((2,3,4),(5,2),2)> tuple inside list's Q = [(4,2,3), (1,8), 9]a[1][1] > 8 -> list inside tuble: a= ([1,2,3]) | Lype (a) -> list A b=([2,4,5],[8,9]) Hype (b) tuple > So, even if you wish ho A III San manipulate & tupbe you cando it by first converting into list, then manipulate, then change back a = (4,5,6,7). ca= list(a) C[2] = 'MADHU C + [4,5, MADHU, 7] typle (c) + (4, 5, 'MADHU', 7).

Bets & (unordered collection of unique elem 5= {} type(5) dictionary 5: 92,37, type(5) -> set > 5= { 2, 3, 22, 2, 3, 22, 'MADHU', 3 5 -> 3 2,3,22, 'MADHU'} (unique (no duplicate data, only unique x = set(), type(x) > set list inside set: s= { [2,3], [4,5,6] > every so, we can hold only primitive elements like, int., float, etc. + unordered: 2= 31,2,3,1,5,1,1,2,5}. x[0] > unsubscriptible (every foy i in x: -> set-functions. 2. add (40) (: when i not like append that adds data at end -> set to list, list to set (possible)



key allowance (int, stong, boolean Traffo > d.keys() ~ dict keys [ia', b', d'] -> d. values () dict_values (34,345, {8:45,7:67) of key 45'] = "MADHU" d > 3'a':34, b': 345, d': 38:45, 7:87 key 45': 'MADHU' }. update value of any key: d -> {a':34, b': [8,10,12] d': {8:45, 7:87] 'kay 45': 'MADHU'} Note: If any key is not already available. Then new insertion is done otherwise updation ? > Nesting with dictionaries: d= & key 1 : & nestkey: & subnestkey: 786 d[keyi]['nestkey'] > 3 subnestkey' tupies of items dict = 2 kay1: 1, key 2: 2, key 3: dict- items - dict items ([(key1,1) ('key2', 2), ('key3', 3) Dutionary comprehension = [MADHU! 'NIDHI, TAPUR! SHIMUS. 'MADHU', 'N: 'NIDHI', 'T': TAPUR, 'S': SHIMU

(wherever you don't want to use buy of lany function say if lebel for ... on even twen-defined then use keyword pass) Eu: Squares of even numbers: {2:x ** 2 for x in range (40) if x1/.2 == g) {0:0, 2:4, 84:16, 6:36, 8:64} Functions: (user-defined). def rame-of-function (arg 1, arg 2): def test (): ("coilhout argument). print(" FIRST FUCTION") -test() - FIRST FUNCTION type (test()) -> None Type - def test():

print ("Mello") (": Print always gives you)

None Type a = test() a > Hello (type (a) = None Type) a+"MADHU" -> error (NoneType + str)X def test ()
setum "Hi" (setum any hipe
setum "Hi" (setum any hipe
int, float, tist, hiple, die, etc.) a = text() an'Hi' (type(a)= str) -a+" kumar" > Hi kumar multiple value return: def test(): return 5+Bj, 3, 6, B b=test() (15+6+1, 3,6,6)

