## Multi Value Data type / Collection Data type

If multiple values are auociated with. single variable out if multiple values are storted incide single memory location then it is called as MUDT/CDT.

fordo fielo in la

restrain broad thatu" - 8 .

There are 5 types

1. String

2. List

3. Tuple

4. 8ct

5. Dictionary

1. String: String is a collection of characters

· Arything which occupies ablock of memory is called as characters, it includes alphabets, special & numbers.

· 3tring should enclose b/w 61/66 33

end it with (5) itself because inside the string energthing is considered as characters example: ste 'abe"

Syntax Error: Unterminated string literal.

st= abe"10

pount (st)

· Syntax!

uau = 'chan 1 chan 2 .... chan n

les de leste a r'abrerd'.

- · string is an ordered data type. [the order of ifp is same as order of o/p]
- : String is immutable data type Example: St: 'hai'

s+[2] 2'z'

Type Enor 1 'st' does not support item ausgnment.

· The default value for string is '>/""

MOTE: Immutable Datatype: Once we awign the values to the variable a memory block is going to weath for the variable inside that momory block, we can't do any modification.

MULTI-Vallue, collection do t 2059 D = 31 5) 2nd 1+1 = a[18]/a[-13] 1) 18+1U' = a[1]/a[-30] 2) 'C' . a[12] /a[-19] 6) '5' = a[29] /a[-2] 3) 'o' , a[+]/a[-24) 4) 'n'. a[21]/a[-10] 2. 3: " Whiteboard marker (12, 34, 56), [ wipe " 0 1 23 45 6 7 9 9 10 11 12 13 14 15 16 27 18 28 26 28 28 29 30 31 32 33 1) 1st ? a [2] 4) m : a[11] 1284 5) 2. a[20] 2) 'b' · a[s] 6) 6 2 0 [26] 3) 'd', a[9] 3. b: backspace 7845 capslock stift 1,2,3,,,6 backspace | 78 4 5 | caps | bek | 9h 1/1 + 1/1, 2, 8/1, 1) 16' , 6[0] 5) 200 k, b[22] 2> 2 nd c . be [7] 6 3 3 space - 5 [23] 3) 18' - 6[11) マーカン 't'・ .b [28] 4) 2ndis' + b[18] 8) '8', 6[34] Program to find index number in the given string -> tota "Hello, welcome to my would." value\_to\_find = "H" index: +xt. index (value - to-find) pour (3" The index of 'Evalue-to-find 3'is: {index}")

1. Stz Muti-value, collection d. t 2059