List

data - l'it is a collection of elements) a list is hetregeneous & It can contain different dotatypes like intesting etc. => The element's in a list are indessed. -> First index is o. Lungys proper

because each element has a definite Place in the listing. Hail

-> List 2=1 [10243] Invita " wing

-> List doesn't need a built-in function to create a list. (unlike sets)

append() method

teil > It is used to add elements to the list.

> It adds elements out the end of the list.

=> Tuples can be added list using append. => List can be added to another list. using append. o ei scaleni toria eg: - # Adding elements Print(" Inithat list: ", "list? ) ist? ) ist? ) ist? list negend Eight out only list 1. append(5) Print (" Final list :" , list 1) with the descent three points of the said this to create a 1004 . Contilled Sets

A rodaling elements using iterator forticion range (1,4): is the adides cheminate in list-appendci) Print (" list after adding elements in polist) A Adding taple to list (entre, Noiticon) list = [1,2,3] list-appendices,60) Print (" list after adding tuple: " list) : tellet Culling teal 12 this '# Adding list to list (3/1) Hoseni . tell 1154=[4,7,6] Lania " Jania" Tring lists. append(listz) Print("listLafter adding listz", list1) (ME1812) 2 FOIL D

insett method prost great drews/s prikts is -> It adds elements at he desixed => It requires two og argumentsmy Crosition, value) tell et stypt pricht ? [8,5,1] = teil Print ("Initial lest:" , to list ) and list-inself (1,6) of tool Balking 4. Print L" Rind list: (E) (Fist) - 1011 Hoth. appendenses) output l'establ entails rather Men Javin) inal list = [ 1,6,2,3,4]

184= [1,12,3,4] presenting, without my list. insert ( o, "internet") Print(list) 11111 1-15- 5output [8,8,13 will [ internet, 1,2,3,4] (FI-) tell stary extendic) method E strylve => It is used to add multiple elements at the same time at the end of the list. es it to reek to remove element rusor t eg: -· +e2/ 20t Print (" initial list:", 115+)" and h list. extend( 8, 'IoT', Bigdata') Paint ( list)

(2000) 3000 Negative indexing Perrotai, 6 Stracki . 4511 (4311) dripg trytro 115+= [1,2,3] [ interest, 112, 3,4] Print ( list [-1]) ontput: 3 Cirrenty method Le eterniste shitting plan of board of the removel) method => 1+ is used to remove element From the list, => It removes first occurrence of the searched clement. Leithy " oning had entend ("101", bighard (tall ) thiny

eg: list=[1,213,4,5,6,7] print (" Initial list", list) list remove (3) Print (list)

ontynt: Initial 113+ - [1,2,3,4,5,6,7] 181311 : 1811 [1,2,4,5,6,7]

C=3909.7e11

6> [10) = [ Vers 140 506] <= Popis method

et is used to remove se return an element.

es by default it removes last element.

=> can demove element ma a specific position in the list, by passing asagmounts the index of element as argument in

:13 List = [1,21314] 17 - 1011 es:-List populied litting") with print "List on List) (teil) - Wir; List: [1/2/3] within . taytoo [1, 2, 4, 5, 6,7] => List = [ 12,3,4,5,6] LONTON CIGOR List. POP(2) Bint (" List: ", List) coment. owlent List: [1], 2, 4, 5, 6) +1 Hactale 14 som remove element had a stacific position in the tist; by prosing northweeth in index of element as angument in

Slicing 4 0 3 2 4 3 3 3 0 3 = 101 => Slice operation is used to print a specific range of element, from list. used for slicing salite = Serciolis used · [:index] - Hom beginning to 9 Honge · [:-index] \_ From end to a projection [ specific lindex to · [start index: end index] E: J' 2 to paing whole list · [::-1] - to reverse a list.

List= [ 'o', E', E', k', s', F', o', R', [ '') sel で まからいいは、は、は、は、あられのからの solle - Print E" Initial Piste" pelist) 31773393 sliled-list = List[3:8] paint (" 11st afted slicing:", sliced\_1ist) or one enter mong wong - (xibni -: ) Toutial list in E'a'iE', E', K', 5, F', O', R', G'E'E'K',S · [ Start Index send index] list after sticing: [ix is, F, o', P'] 301 a servise of. [1-11].

=> uses softic numethod newship the esmonest

eg:- list1 = [6,11,1,5]. (3/1/1/05)

list1.sort()

Print clist1)

[1,5,6,11]

reverse list

=> use - reversec)

. list. reverse()

cory list

=> this list = C "apple", "banana"]

myllst=thislist-copy()

Print(mylist)

cleare) removes all elements in the listo? (onn+() Levinion = 14811 Cottoe. Etell number of elements. ( Etail String

[11,0]

feil ,