Lists 1

Agenda

- Introduction
- Indexing
- Inserting data
- Iterating over lists

ignore them

This will be

covered in

Classes & Objects

(Intermediate Batch)

Data - Run - Salus - Movies

Data Structures



→ Kaps
→ Cropht
→ Tries
→ Trees

indemodiate + Advance

Lists



- Lists are used to store multiple items in a single variable
- Lists are created using square brackets
- List items are ordered, changeable, and allow duplicate values.
- List items are indexed, the first item has index [0], the second item has index [1] etc.
- The list is changeable, meaning that we can change, add, and remove items in a list after it has been created.
- You can also use the list constructor list() to create lists.

Indexing

List
$$\rightarrow$$
 length = N

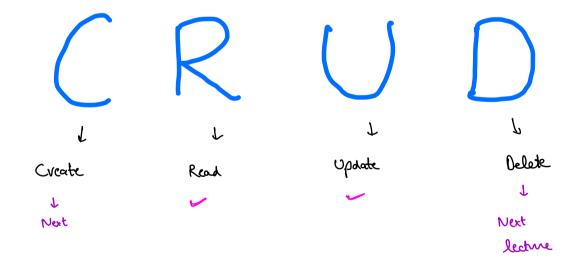
Last element = $a [N-1]$

$$a = C$$

if -3

if -2

last Negative Index $\rightarrow -N$



Insertion

- -> append () -> Adds data at the end of your list
- . insert (index, data) It inverts data at index parition
- → Taker data from the

 list/

 trable

 it in original list
- → Using concatenation

$$a = \begin{bmatrix} 10, & 20, 307 \\ -2, & -2 \end{bmatrix}$$
 Insert 100
a. insert (-2, 100) at parition of index = -2

Insert
$$100$$
 at 100 index 100

print (a [0])

Index -> 0 to N-1

range (0, N)

Ofault value for

start = 0

range (N)

Python Specific Creneric Name

list array

Doubts

Thank You

-> Assignments

$$vuns = [10, ss, 4, 67, 17]$$

$$vuns . append (6)$$

$$vuns . append (200)$$

$$vuns [-1] + vuns [2]$$

$$vuns [-1] + vuns [2]$$

Infinite Loop

for i in range (N):

$$if \quad \text{E*i} = = N :$$

$$ans = N$$

Weret

Case

$$IO = 10$$

$$10 = 10$$

Think about this

Perfect Number $\frac{\text{Fg} - 6}{1,2,3}$ 1+2+3 = 6

Crood Night

Thank You

Monday