(26/09/2025, Friday)

Data Structure. There are the way of organizing of sorting the data so that they can be accessed and modified efficiently.

python provider both built-in dota str & allow us to implement wer defined data str.

Built-in ds:

lut: []

tuple: ()

Set: & 3

dict: { Ky: value }

Lit (), []-It is a heterogeneous data collector & its ordered, mulable & allow duplicated we can hold the position.

append () - It is used to add values at the end.

pop() - helps to delete values from the end.

clear() - It helps to delete the values only but list

remains the same.

del - It will delete the entire let.

len () - It is used to return the nox of elements in the list. Ex: len(num1)

count (). It will helps to count how many times a number is presented.

```
p Create even, add, prime number list from 1 to 20 number.
                #154 we need to create empty list to store even,
evt = []
od = [ ]
                 odd & prime numbers
 pl =[]
 for i in range (1, 21, 1):
       if i/. 2 == 0;
           evi append (i)
          od append (i)
       for j'in range (2, i):
            if (i+j == 0):
                  break
      else:
          pl·append(i)
                                                  16, 18, 20]
                                             -: [1,3,5,7,9,11,13,15,
 print (" t-ven numbers: ", eVL)
 print (" odd numbers;", od)
                                                17,19]
                                            3 [1,2,3,5,7,11,13,17]
 print ("prime number:", pl)
```