Date / /20			
Rest []	Tuple ()	Set 23	Dictionary =
A list is a collection of	sequence of	Asitisa built-sn	A dictionary
ordered	eparatedby	in python that	
- Ula	commas & unclosed &n	collution of	ceach kysis
	parintheses	uneque	associated
	17 B - C - 2 3 3	elements.	with a value.
	Tuples maintai	Sits do not malntain	Dict do
the order of the	the elements		maintain
contain	they contain	THUE!	The It Is
List can be	Tuples can be	Sds cannot	Did-cannot
accessed by E andrew	accessed by Rndux	- (3)	LINE S
Lists can be	Tuples cannot be modified	Suts can	Dict cannot
	by adding or	c- charge	ACTIVAL TO SA
samoving aliments	sumoving		alpie y
	Tuples can	Suts cannol-	Dict cannot
Liste can contain	contain duplicate		
dupiteati			

hist :- A list is a collection of ordered Fuple: - ulements. Lists can be of different data types such as Ptique, ploats, strings et. voulous operations ever as adding or can be performed in a list.

Eg! - my_list - [42,3,4,5] my-list[2]=6 (changing stem) my-list, append (7) (adding themat end) [1,2,6,8,4 my-list vernove (4) (surnoving êtem)

peint (my-list) > Tuple :- A tuple is a requence of elements Exparated by commas & unclosed in parinthuses. Tuples are similar to liste, but they cannot be modified once exacted. This means that you cannot add, sumove of modify in tuple.

Eg:- my tuple = (1, 2, 3, 4, 5)

paint (Pythons paint (my-tuple [: 3]) (1, 2, 3) Dictionary 3-A deckonary Por Python is a collection of Key-value poins, where each pey is unique and associated with a value. whe can change the values of a dictioner They are useful for storing & accursing data.

Eg: f"Fruits": "Apple" "Cars": BMNO"? Eg:-. countries = ? "India": "New Delhi",

"Japan": "Tokyo"? print (countries ['India']) Outfut: - New delhi peint (counterle ['Japan'])

Concatination means + adding! print ("Kullo" + "world") Output: Hullo World 4 Hi*3 = HO HO HO (*) polmat () -> To Present values name = Sun Age = 25 peint (" my name il & & & agr & y." format (name age)) String Muthods (all 6 imp) Strup() → Rimove spaus
"Hello". skipl) → "Hullo" lower() - converts to lowercase (D "HELLO". loneer() -> "hello" upper() -> converts to uppercase "hello" upper () -> "HELLO" suplace (a,b) -> suplaces a with b "apple". suplace ("a", "b") -> "bpple"

(a,b,c". split(",") → Splits by a Porto a list

stantswith ("Py") -> checks of stants with Py
11 python". startswith ("Py") -> Torue

Lists [] Tuples () Suts ?} E' Di' Urionaiers -> Ordered -> Unordered - Ordered -> Unordered - mutable - Immutable mutable -> Induced by Keys - Allow duplicates - Alow duplicates -> unfque elemente - Key-value only paire

strang 3 - a tuple my-tuple = (1,2,3,4,5) , Output 3- (2,3)

print (my-tuple [1:3])

File -> File handling allows reading & to store data per manently, unlike standard ?nput/output which is temporary.

Types of Files > Common types include textinge, audio, older, binary & CSV files.

Operations -> you can open, read, white & close feles en Python. Property closing feles frees resources.

To open file -> open() = open ("my.+xt", "o1") 'or' - Read mode (default) 'us' -> white mode (overwrites existing contrul 'a' - append mode (adds to iscisting content) 'ab' / 'wb' -> erad & væite benaey mode kg!- b = open ("my.txt" "10") f. white ("Hello, world,") f. close() CSV files: A CSV file stores store structured data where values are reparated by commas. To read a CSV jile Import CSV with open ('data.csv', 191') as file reader = C3 v. reader (file) for now in reader: punt (now) > To write to a CSV file Proport CSV with open ('data. (sv', 'w') as file neliter = csv. wereten (file) whiten. whiten sow (["Name", "Age"]) writter . writer row (["Sun", 22])

python is an object oriented peogramming language is an object. Date / /20 class 11,1 A class in python is a blue print for creating objects. It diferes properties and behaviours that Objute Porstantiated from the class well have. Rg:- class Peuson: 7 used for ?nitializing object proporties when object is created out - init - (sey, name, age): self. name = name self. age = age Inheritance allows one class (child class) to inherit attributes & methods from another (Parent class) class Parent: det greet (set): print ("Hello") class child (Parent): paus #output: Helloobj = child () obj.greet () Operator overbading
overbading operators like +, *, etc for custom object behavior. Eg: + operator for objects P. T.O

class A:

def _- Prit -- (self, value): self. value = value The table that would be table of the Property

details the state of the state

LANGE FOREST TORIGINATION TO THE COLUMN THE PROPERTY OF THE PR

det -- add -- (self, other): ruturn self value + other, value 0b1 = A(10)

THE PROPERTY IS NOT THE

062 = A (20) Output: 30

Totals July 1

print- (061+062)