Grodey 12th March 2023. Two kits - Notebooks

- Possible to use google allub online

Note books are made up of cells

Markdown Dext/cells Notebooks

Variables Containers holding letoring data. Defined by

of name and a # Int. vai name Print(a); asswer = 10

advisable to use a name that represent what the variable is storing. Be explicit! Eg. first-number = 10 Variable names are not fixed. You can change by assigning a new value. print (a) ; output lanswer = ] these are test. The value should always have 11 11

Variables Lastring es. "Hello"

Joseph es. "Hello"

Joseph es. 5.0

Joseph es. true/fulse

It's important to sloways know the type of data you are writing with

String-1 = "5"
String-2 = "8"

print (stange 1 + starge 2) = 58 ; type : stark.

int\_1:5; int.2:4

print (ind\_1 + ind\_2) = 10; type = int

Opserations can't be performed on

INTS AND STUNGS

LISTS

They are a collection of values, separated by a comma and enclosed in a square bruckets. The type of clements in a list variable. They are ordered of mutable (charge-lle) # Lrst x = ["girl", 2, 3.0, true] bunt (x) add elements Happend & x.append (1,4) pront(k) = x; [1 girl", 2, 3.0, true, 1,4] # add operation print (x) = ["gill," 2, 3.0, Frue, 1, 4,3, 2,4]

Collections of items that are not changeable, Jupla anclused in (), round brackets. Set Not index able Collection of data that are un-ordered nu muthable.

a: "'You are good'. gives the value

a: "'You are good'. y y, a le, s

pant (sel(a)) = d u, o) Alments are unique. Doesn't repeat. Distinanos Nutindexable. Similar to soft with a key value gair. Each a: q' name": "boy", "age": 7,
"colver": bleck] Tris pussible to charge access property and adding dictionary by indexing that property and adding the new name "girl" bung (a Evans ) in dill. Aadd new property

# all" numerichildren" ]: 2

Collections of data/value Indexable Ordered Mutable List

Tuple Set D. ctionary

	Mutable	Ordered	Indexable	Unique
List	V	<b>~</b>	<b>V</b>	×
Tuple	×	<b>~</b>	$\overline{\checkmark}$	×
Set	<b>▼</b>	1×	×	▼
Dictionary	<b>▽</b>	×	×	✓ keys X values

Pussible to Other then with inbuilt python Libraring: Ordered Dict