Boolean – logical values indicating True or False.

Float : numbers with Decimals (2.3 , 4.5, 200.7….)

x = 200.7

print(type(x))

A screenshot of a computer program

Description automatically generated

Complex - created from two real numbers.

* Can be created directly /complex function.
* Presented in the form : (x + yj)
* j = √-1.

String- str – ordered sequence of characters (“10”,”Hello World”, “CapaCiti”,”200.7”,”!@#$%&”)

* Numbers and special characters in “ ” will be considered string

None - None keyword is an object, and it is a data type of the class NoneType.

**\*\*\* Take Note\*\*\***

* None is not the same as False.
* None is not 0.
* None is not an empty string.

List – Ordered sequence of objects[10,”Hello”,”200.7”70.2]

* Objects declared in [ ]
* It mutable (changeable) and allows duplicates
* Make use of index : var.abc[1],will print from index no.1. NB : the counts start from 0 by default

Tuple -ordered immutable sequence of objects(10,”Hello”,”200.7”70.2)

* Objects are declared in ()
* Allows duplicates
* once declared it can not be changed

Set- unordered ,unindexed objects.

* Do not allow duplicates
* Collection of unique objects{ “a”, “b”, “c”}
* You can not index to print ,instead Loop need to be created for this type to print values

Dictionary- dict- unordered key : value pairs

* { “key:value1”, “Name: Circle”}
* Changeable, indexed and allows no duplicates

|  |  |  |  |
| --- | --- | --- | --- |
| List | tuple | set | dict |
| Ordered objects | Ordered objects | Unordered objects | Unordered key values |
|  |  |  |  |
| Allows duplicates | Allows duplicates | No duplicates | No duplicates |
| Make use of index | Make use of index | No index | indexed |
| Mutable | immutable | Mutable | mutable |
| Objects declared in [ ] | Declared in circular brackets | Declared in curly brackets |  |
|  |  |  |  |