"Attributes and Methods"

Attributes

Class Attributes	Instance Attribute
↳ Attributes that are common to all instances of class. (Means for every object value of attribute stays the same)	↳ Attribute whose value is specific for every instance of class. e.g Name of every employee must be different.

↳ like when we made 2 objects of employee class (in Jupyter notebook) both employees have same name.

→ Class Attribute should have data that is common for every object. e.g

consider class:

```
class Employee ():
    no_hours = 40
e1 = Employee ()
e2 = Employee ()

e1.name = 'John'
```
↳ Instance attrib name for e1 instance.

No of working hours

22 Wednesday
18 Jamadi-ul-Awwal

23 Thursday
19 Jamadi-ul-Awwal

National Bank of Pakistan

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

class having
a

Making Class Attribute

e.g

Class Employee (): ⟶ Class
    no_of_hours = 40   Attribute

e1 = Employee () } ⟶ both will have
e2 = Employee () }   same value
                    for no_of_hours.

↳ To change value of no_of_hours
    from outside class ⟹
       ↗class   → attribute   ↱new
    Employee . no_of_hours = 45 value

Explanation :
    Whenever we use object to
access any attribute it instance will firstly
check class for ~~class~~ Attribute
if we have instance attribute
    it will give us that
without checking value of
class attribute.
    ↳ If we do not instance attribute
      Only then it will give

us class Attributes value.

```
┌─────────────┐
│ Instance    │ ────────→  firstly check
│   Attribute │
└──────┬──────┘
       │
       ↓
┌─────────────┐
│ Class       │ ────────→  Then this
│   Attribute │              one
└─────────────┘
```