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(Q1) what is Polymorphism? Define dynamic & static polymorphism? ~~Define~~ Define unpacking sequences with example. Define Tuple in python with example

Soln Polymorphism :- in literal sense, Polymorphism means the ability to take various forms. In python, Poly-morphism allows us to define methods in the child class with the same name as defined in their parent class

Static Polymorphism :- static polymorphism is polymorphism that occours at compile time & dynamic not executed. An aspect of Static polymorphism is early binding. In early binding the specific method to call is resolved at compile time.

Unpacking sequence :-
python allows unpacking of any sequence of any sequence of any sequence into variables using a simple assignment operation. unpacking can be done by assigning sequence to comma seperated variable

Ex :-

unpacking P into variable x & y

```
p = (100, 200)
x, y = p
print(x)
Print(y)
```

output

```
100
200.
```

Tuple :- A Tuple is a collection of object which ordered & immutable. Tuples are sequence, just like list. The difference b/w Tuple & list are the tuple cannot be change like list and tuple uses parantheses.

ex :-

```
tup = (5, 10, 15, 20)
tup = (), empty tuple.
```