

DAY-3-

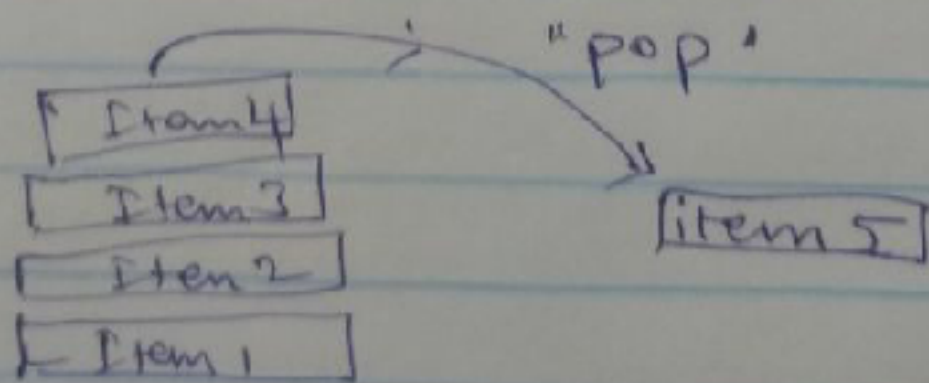
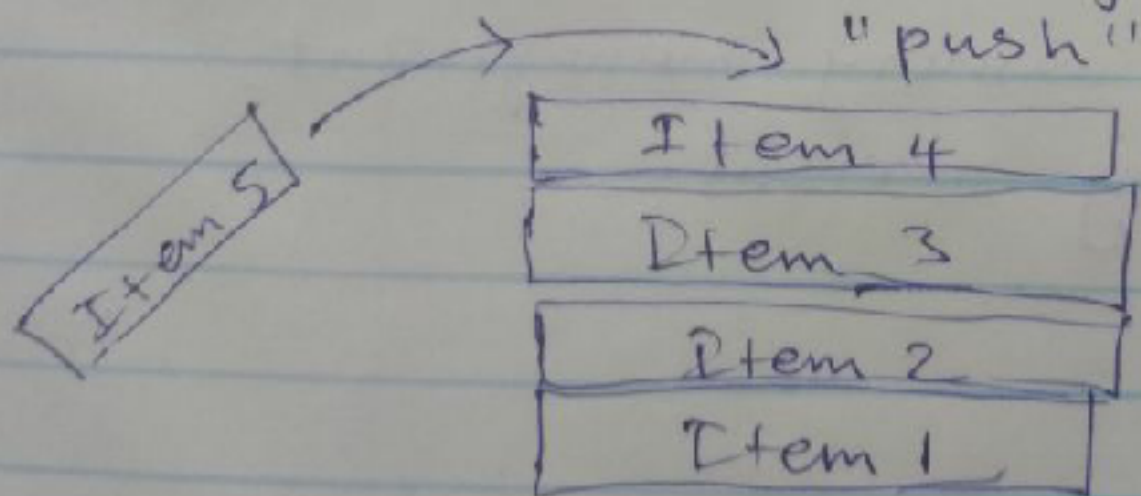
Stack - in python.

→ A linear data structure that stores items in Last-In/First-out (LIFO) or First-In/Last-Out manner.

→ Both 'add' and 'remove' operations are performed at the end only. here, * insertion is called as 'push' * and deletion is 'pop'.

For a say :-

if you stack books "one on one" to of other, the first you take, will be the one you added as last.



Implementing Stack using list:-

→ Using python's built-in data structure list can be used as stack.

* push() - append()

* pop() - remove()

* NOTE :- But python's list has some issues while getting larger.

Applications of Stack:-

→ Balancing of symbols.

→ Infix to Postfix / Prefix conversion

→ Redo-Undo features.

→ Forward and Backward features in web browsers.

→ In memory management.

→ String reversal.