STACK
La Data Staucture
>> Linear De
-> Last In First Out (LIFO)
S S S S S S S S S S S S S S S S S S S
ag -> Call / Function Stack in memory
-s Undo (redo
-> Forward / Back in browser
Functions of stack
Posh - add at top 2
2 Pob = gamove from top = push(4)
2) Peek = pretvan top = bush(3) bush(5)
(i) size = actuans size of = boloc)
Is Empty > returns boolean depending on size

AggrayList 7 [1 (2 [3] 4] 5 remove First O(n) Add First O(n) Add Last O(1)
get O(1) remove Last 0(1) class Stack & Array List push (int item) {

list add (item);

LL hepd

O-O-O-O-O

Start DID gramoup Figure

add First O(1) remove First O(1)
add Last O(n) remove Last O(n)

bush(2)

push(u)

push(b)

push(s)

push(s)

push(s)

push(s)

push(s)

 $(3) \rightarrow (2) \rightarrow (1)$ 1) Push -> add Figst 2) Pop - aemove First 3 Peak - get First -> get Node (0) (4) Singe 3 Size = =0 (S) Is Empty bush (val) } asse [++ top] = Val 3 Pop () { top - -; oretvan coaltop+1); beek () { neturn ana [top];

Stack &

singe

