

Stack. Use	0
Undo/Redo. Oftions. (Used in Ms word, Earl, Notefall Back I fremmed.	ele
Back forward. Solving Mathematical Problems with precedence.	
Use of stack in CS.	
Stack in Assembly language. Use	
was two Numbers. To Reverse a String Helps in Nected Wass (loop within Loop).	

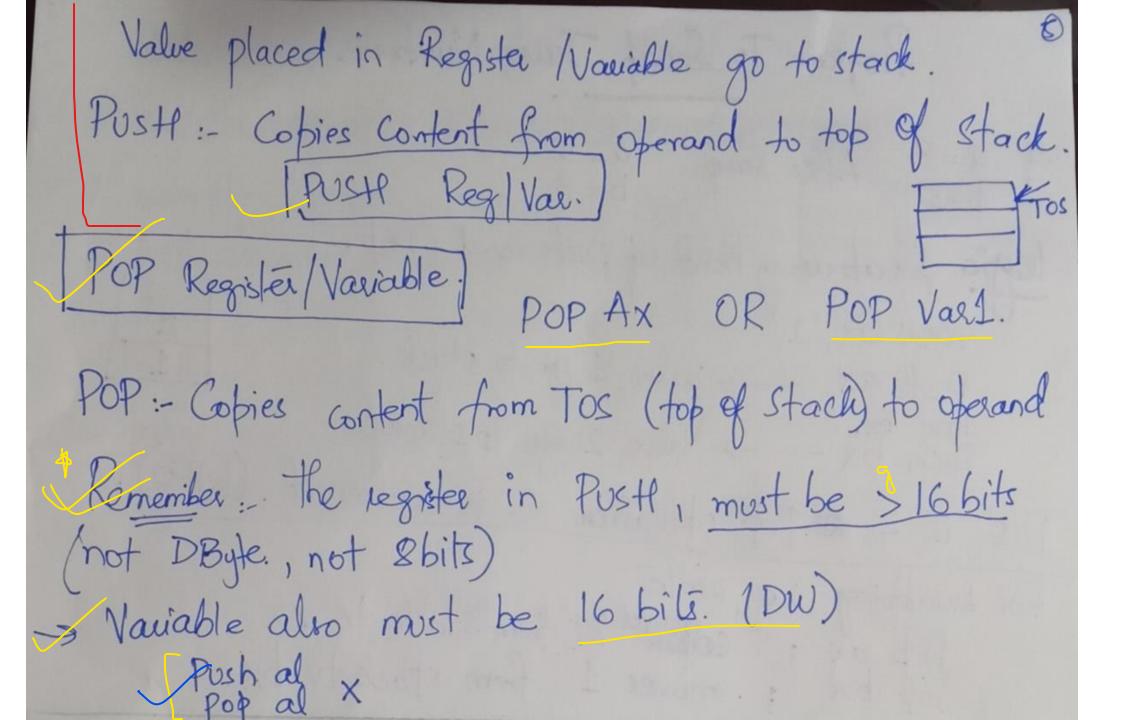
Stack: - Arrangement, Organization. LIFO (last 9n First Out): In assembly we reserve part of RAM. Shout Values in "Stack is a DS (dala structure)...

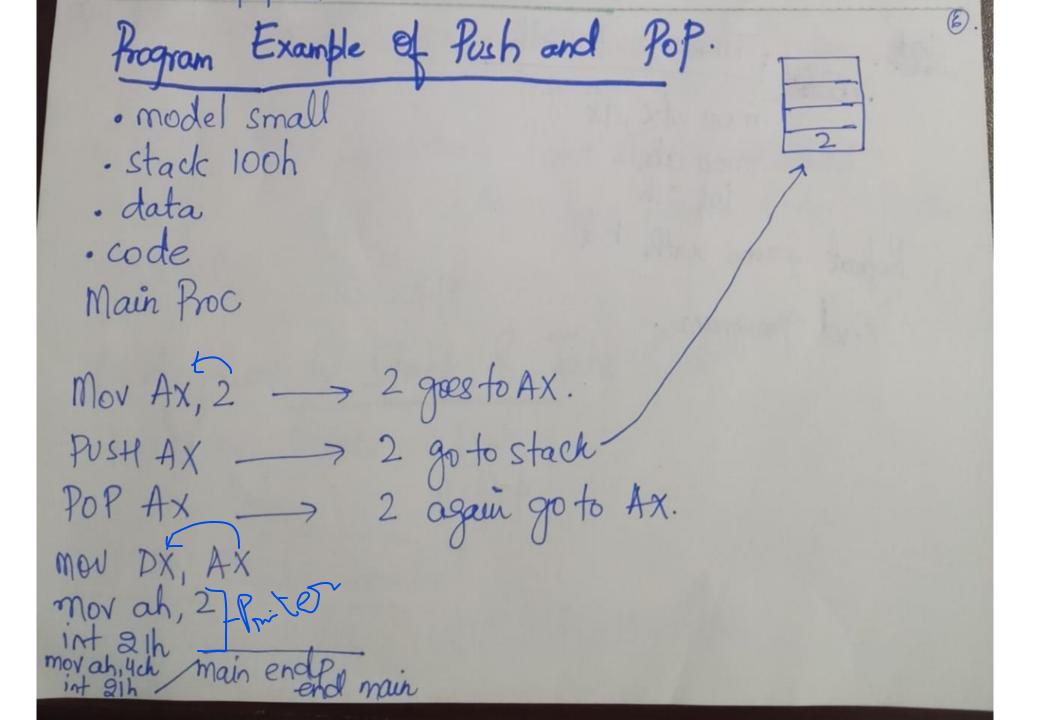
That works on LIFO principle. > Stack is a name for dala arrangement. like LIFO. USE OF STACK IN ASSEMBLY PROGRAM. - stack look 100 Bytes of memory reserved.

Sts a directic Command that reserve 100 bytes for stack.

-> - Stack 100h, written after model small In assembly, we reserve Space of RAM, which the location of RAM is reserved to where is Top? >. First me resene space in . Stack 100h Stack beginner Register hold address of Poetion of RAM. Stack pointer Register points to Top

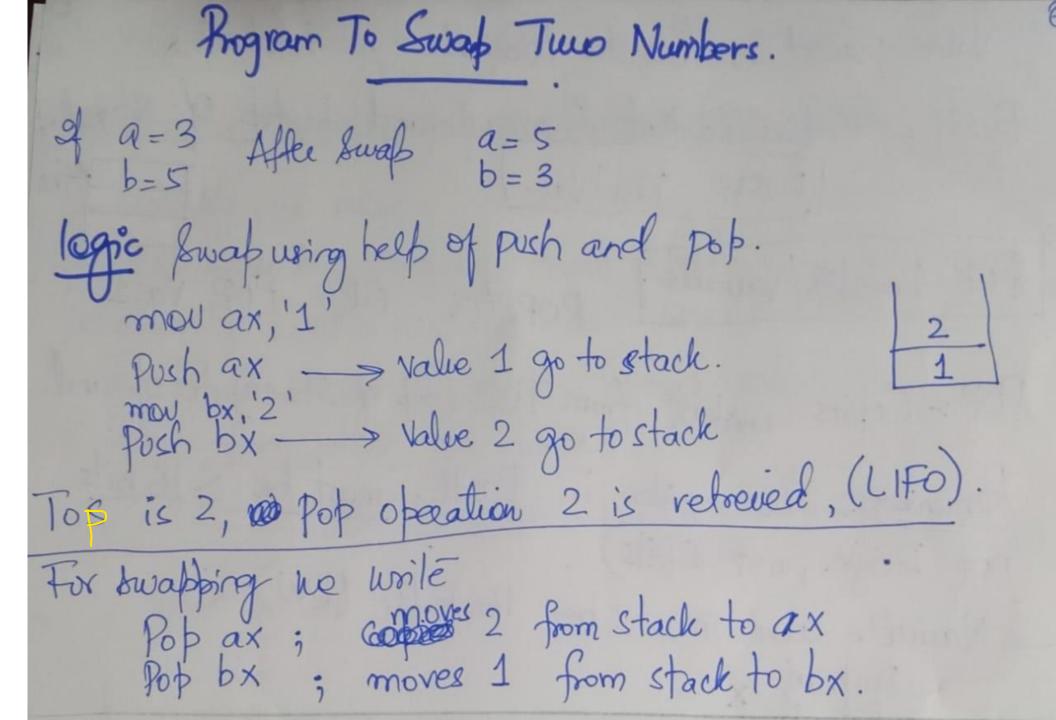
Stack Segment Register: - Hold address of space reserved for stack: Stack pointer Register ... Point the top contents
of space reserved for stack. We write Add Value to Stack & Take Oul-2 functions Osed. (1) Push 2) Pop. Rogister Variable. PUSH AX OR PUSH Var1







STACK LAB



Then print both mov dx, ax mov ah, 2 int 21h Report fame with bx End Program.

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Program to Reverse a String. logic:). data -> string db'abc ; create string Mair proc mou ax, @dala mou de, ax 3). To access string character wise Wesend to SI, & offset and variable mon si, ofset string (first element address of vae. go to si) Her he put character one by one means stacking address help of push and pop, With the help of push and pop, 3 characters, 3 times book to Run a/c to Hing.

> loop sun 3 fines. mou cx,3 -> Starking address of value most to by. p. mov bx, [si]

push bx

inc si -> Value go to stack. > increment. 100p 11 Stack is created For Pop and Print we Create 10062 mov cx, 3 - for print place value direct to dx pop dx mov ah, 2 int 21h 100bL2

mov ab, 4ch int 21h main endpend main

(1)