Stack Using Array

Algorithm

i) check condition TOP == -1, if true

Stack is empty
Display "TOP! and display Stack[TOP]

3) Repeat until i > 0, intially i = TOP-1
display value of stack Ci]

Push

1) Check Condition of TOP == MAX-1

1.1) If true, display "STACK IS. " FULL "

2) TOP++

3) STACK[TOP] = item

4) End.

1) Check condition TOP==-1 (1) If true dusplay "Underflow"

2) deleteItem = STACK [TOP];

3) TOP --

4) Display "Deleted Successfully" 5) End.

- 1) Read value to MAX
- 2) Intralize ITEM=0, CHOICE=0, TOP=-1
- 3) Repeat until user says to stop
- 4) Enter the value of CHOICE
- 4.1) if CHOICE = 1, Execute display
- 4-2) if CHOICE = 2, Read value to ITEM and then execute PUSH
- 4.3) if CHOICE = 3, Execute POP
- 4.4) y CHOICE = 4, Exit the Repeat loop
- 5) End

Output

Enter the Max Value of Stack 10

Enter Choice

- 1) display
- 2) unsert (Push)
- 3) remove (POP)
- 4) Exit ... 2 Enter the Item to be unsert: 3

Enter choice

- 1) display
- 2) unsert (Push)
- 3) remove (POP)
- 4) Exit . .: 1

3 4-Enter Choice 1) display 2) insert (Push

3) remove (POP)

4) Exit ... 3

3 deteted Successfully