autrut Linked List Stack Choose an operation: [2] Pop [i] Push [4] EXIT [3] ShowStack Choice: 3 Stack Empty 11 choice: 1 alement topush! 10 Choice: 1 Element to push! 20 choice: 1 alement to push: 30 choice: 1 Element Topush! 40 . Choice: 3 TOP=) 40 30 20 10 toman Ded Tuest Choice: 2 GOT: 40 Choice: 3 TOP=) 80 20 10

Choice: 2 607:30 De la contra de la company

Choice: 3 TOP => 20/10 AKGORITHM

1. Declare a Structure, Node with data, prev.

2. Stack = NULL

1. i6(stack == NULL) seturn 1 2. return 0

T. push (el)

1. Create new node, new Node

2. hewNode-plev = stack

3. NewNade data = ele

4. Stack = new Node

M. Pop()

1. temp = stack

2. Stack = Stack. PREV

3. Op = temp. data

4. Pelete temp

5. hetern op.

7. Showstack()

p = stack
while (p!= NULL):
DISPLAY p. data
p = p. prev.

Choia: 2 biot: 20 Choia: 3 Top => 10 Choia: 2 biot: 10

Choice: 3 Stack Empty 11

Choice: 4

main 1. DISPLAY menu with push, pop, display, escit. 2. if (exit): netur else if (push): INPUT element to push, ele Call pupilowith de. else if (pap): if (istimpty()): DISPLAY "Stack Empty" elce (all popl) and DISPRAY Result else if (display): (all displaystack (). 3. End. RESULT is obtained,

Program is executed succenfully and output