STACK

ALGORITHM:

Function push(s,ele)

**Push operation is used to insert an element into stack.**

MAX-Size Of Stack

S(1:MAX)-Stack

Tos-Top of Stack

Ele-Element to push

1.Start

2.if tos=max then

3.print ‘stack overflow’

4.return

5.tos=tos+1

6. s(tos)=ele

7.return

Function isEmpty(s):Boolean

1.start

2.if tos=0 then

3.return true

4.else

Return false

Function pop(s):integer

**Pop operation is used to remove an item from stack, first get the element and then decrease TOP pointer**

1.start

2.if isEmpty(s)=true then

3.print ‘stack underflow’

Return -1

4.else

Z=s(tos)

Tos=tos-1

5.Return z

Function stacktop(s):integer

1.start

2.if isEmpty(s)=true then

3.print ‘stack is empty’

4.return -1;

5.else

Return s(tos)

Function Display(s):void

1.start

2.if isEmpty(s)=true then

3.print ‘stack empty’

4.else

For i=tos down to 1 do

5.print s(i)

6.return

OUTPUT



