

Assignment-2

PUSH: STACK, DATA, MAXSIZE, TOP.

- 1) IF TOP == MAXSIZE
PRINT "STACK OVERFLOW"
- 2) ELSE
- 3) TOP = TOP + 1
STACK[TOP] = DATA.
- 4) END IF

POP: STACK, DATA, TOP.

- 1) IF TOP == 0
PRINT "STACK UNDERFLOW"
- 2) ELSE
- 3) DATA = STACK[TOP].
TOP = TOP - 1.
- 4) RETURN DATA.
- 5) END IF.

DISPLAY: STACK, DATA, N, TOP.

- 1) IF TOP > -1.
FOR N = 0 TO TOP
PRINT STACK[N].
- 2) ELSE
PRINT "EMPTY STACK"
- 3) END IF.