Stack

Stack Example

is Polish Notation 1 - 10 0 000

There are three types of Notation

- 1) unfix Notation (A+B)
- 2) Pufuse Notation (+ AB)
- 3) Postfix Notation (AB+)

How to Connect Infex to Postfix

- 1) Solve brackets or Parcentheous
- 2) Solve Exponent or Power (1 or 1)
- 3) Solve multiply or Divido [Left To Right].
- 4) Solve Addition or Subtract [left to Right].

Convert this infec to Postfex

T = AB+

M = TC &

K = MD

```
=> MO/E-
=> TC + DIE-
        => AB+ C * D[E-]
II nd may ((A+B) & C(D-E)
 step Symbol Black Stack Expression
         photos (() something AA
  PISIA
           & ((Heusel deu A
  2
        +
        B 2.2 ((+ Man AB
  3
        ) P3.8 ( AB+
           E Clamento & deAB+
          Per C+ tensel de AB+C
           Blooms C | tomoreto & do?
           PICC HAB+C*D P
  29-p/15- pland (+ moreto = AB+C * D=/
           (E)(- BARC +D |E
         10
             2 4 9/0 [AB+C +D[E-
   11
```

Solve thoo Infex to Postfex 12, 4, 1, 5, 4, +, x, 9,1

tupur	Actron	stack		comedial
12	Push	10 * (610)) Re	sult.
	Push	12,4	bennoch	90/8
‡	Potr 2 oterro	and Empty	miala	4 = 3
5) Rush Resul		8	2
ч +	+8 kush		(þ
*	Pot 2 otre Pot 2 otre Pot 2 otre	rand Empty	2 43	= 9 B=27
	1 hush		9	
100	to hot 20to	errand Emply	- 27/0	1=3
0 15	hush Res	-)(3)	3	o)
[-=]	108+6+6	0/P=>3	C	11

```
Convert this infex Extression to Post fex.
   (A+(B*C-(DIE 1 F) X G) XH)
      Symbol
                  Stack Extression
sleh
  & canned
          A
 1
                      bonussels mo es ou
 2
                  (+( dool offer dans)
 3
                  C+C barreto AB ands.
  4
                  (+(+ steel ABone down)
  5
                  C+C+ ABC
                         ABC *wd (6
   6
                  (+ (-
   7
                           ABC*
                  (+(-(
                       notorone tor (
   8
                  (+(-(
   9
                  C+(-(1 b) ABC +D
   10
                  C+C-CI PBC + DE
   11
                  C+C-CIT ABC + DE
   12
                 C+C-CIT ABC * DEF
   13
                 C+C- ABC * DEF 1
    14
                           ABC & DEFT
                 (+ (-x
    15
                 (+(-X ABC * DEF1/G
    16
                         ABC* DEF 1 LGT *-
                -(+
    17
                (+X ABC * DEF 1/G+
    18
                    ABC* DEF 1/G+-H
                (+ X
    19
    20
                   ABC + DEF 1/G + - H*+
```

Evaluate the following Extression in Post fix Its form wring a Stack

True, falso, True, not, falso, true, or, not and, or, and

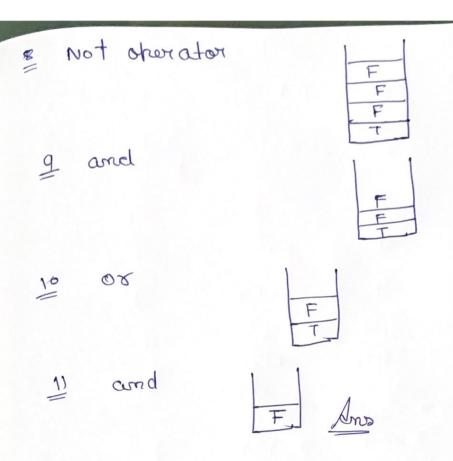
- Push into Stack (i)
- Jalso is an operand) | F | 81
- 3) true 2819 (-) +) | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | | T | |
- Pop lahorand D-) F

 Not True =7 falso +) T
- 5)9 falso (1) -)+) | F | 7
- (+(-x | PBC + DBF 1) | T | (-) +) | T | (-) +) | T | (-) + | T | (

hot 2 oterands

TOOF => T ABC & DET TION & - HX F

81



Stack

step Symbool Stack

Ex pression

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C (+((+)

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1

D (+(+(

12 (+(+(+

13

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ABC+D

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ABC+DE

ABC+DE+

AB(+DE+

ABC+PE+F

(+ E ABC+ DE+F++ 12 (+/ ABC+ DE+F*+\$ PBC+ PE+F ++ G G (+1 ABC+ DE+ F++GT 1+ 20 [4,10,5,+,+,15,3,/,-] Stack Action intut Push 4 Rush TO 4,10 10 4,10,5 Push 5 10/5=15 Pof 2 oberand Potra otherand \$60 + U 2= 8 Jano, T. 80 - Rush tour 60,15 15 Rush 60,15,3 3 Poh 2 otarand 60,5 15/3=5 Roh 2 oherard \$ 55 8-5=3 355 110 4 DEF IN SEC ADEL VI 1136 or DET 1/60 DOCK DELA LOTO-

```
((A+B) × (1D)
      ((
     ((+
           A B
     ((+
           AB+
           001AB+
      (*
             PB+C
    90 GUATT ABHORT . T
    (1 PB+C*D
             AB+(+D/
((A+B)+CID+(E1F))[G
             A
        0
             A +3
        (0+
             AB
        CC+
              ABT
              AB+(
              AB+C
              AB+CD
        60
             AB+CD+
 +
               AB+
               AB+C
               AB+COV
               AB+(* D
               AB+COD)
```

