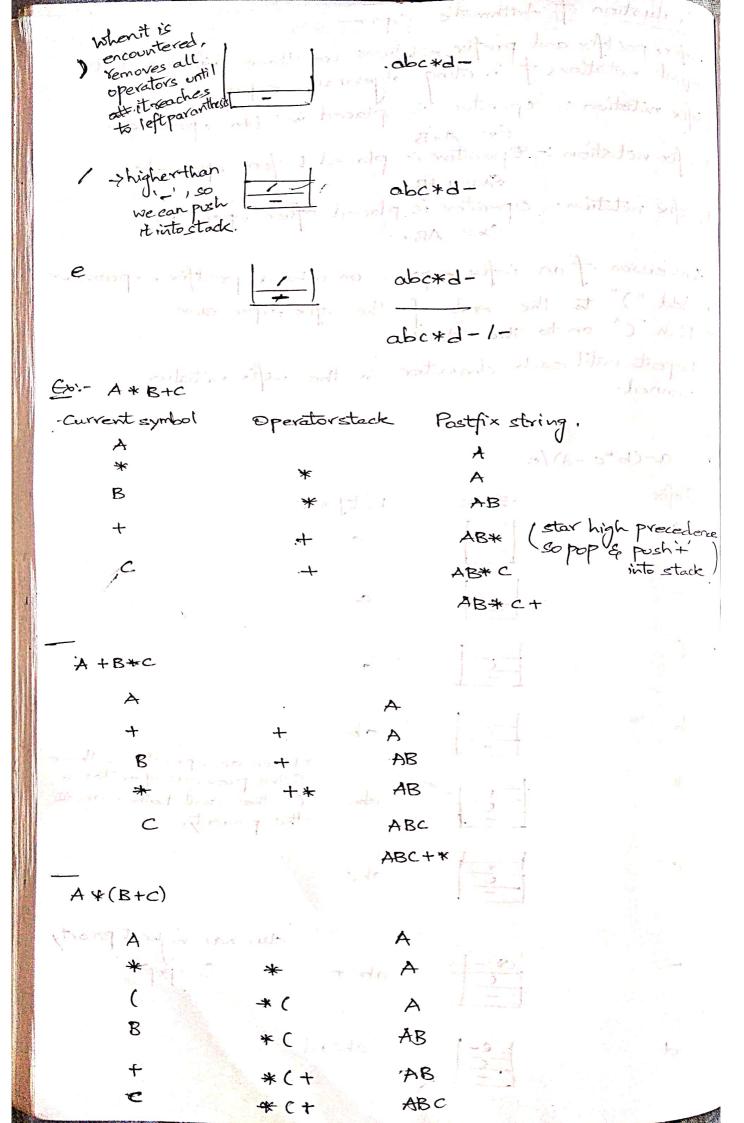
Evaluation of Arithmetic Expressions Infix, postfix and prefix notations are three different but equal notations of writing algebraic expressions Infix notation: - Operator is placed in In operands. Prefix notation: - Operator is placed before operands. Postfix notation: - Operator is placed ofter operands. Conversion of an infix expression into a postfix expression. in Add ")" to the end of the infix expression.
12) Push "(" on to the stack. (2) Repeat until each character in the infix notation is and astroy eor a-(b*c-d)/e Infix Post fix * Stack and a special return test of . > When an operator's there & the previous operator is "(" , then don't bother about The priority. abc* So cpop). abc*d



A ABC+ XBC+4 -B+C B + AB AB--(%) A+B*C/CE-F) A + B AB * AB ABC <u>_</u> ABC * +/ ABC + C. +1.6 +10 ABC *E ABC*E. +/(-ABC+ EF

ABC*EF-

ABC* EF-/+

1 - the roll

+10-

+/

F

```
(a/Cb-c+d))* (e-a)*c.
  (
  a
                   0
             ( /
                    a
            CIC
                    0
                   ab
           clc
                             M 4081
                    ab
          C1C-
                    abc
           clc-
  C
                    abc-
           clc+
                    abc-d
           CIC+
  0
                     abc-d+
            Cl
                     abc-ditalises
   )
                     abg-d+/+51
            *
                     abcad+/++si
            Ac (
                     abc-d+le
                     abc-d+le.
            *(-
                     abc-d+lea
            *(-
  a
                     abc-d+lea-
                     abc-d+/ea-
  *
                     abc-d+lea-c
                     abc-d+lea-c**.
```

```
not - Florin
9-(63*47+8)/4
                 9
9
                 9
                  9
          -((
                  93
          7)7
                  93
         -((+
                  934
   4
         -(( *
                             0150
                  934*
          -(
                  934*
         . -- ( -
          -(++
                  934*
                                    + >13
  8
                  934*8
          -(+*
                                    +01)
         --
                                     13
                  934 * 8 +
                   934 *8+
  4
                   934*87
                   934 *8+041-
                   03-1+6-3-do
                  -115/+6. 3.do
                                    t 1
                                    歌 小
```

934 *8+41-9,3 9,3 9,3,4 4 1.1.01141 01 4501 5+001 · 8 - 54 6 0. £1=(+1)1 2151 514 1 - 1 +

4

OI

10

10

10 2+8-3+

```
628*+3-
                                      11- cla 1 1 21. - 21
          6
 6
        6,2
 2
        6,2,8.
  8
         6, 248=16
  *
           6,16
           6-+ 16=22
  +
           22,3.
  3
                                      do is
           22-3=19
                                      1-7
                                     5-7-
231 + +9 -
                                   -15403
       2
2
                                   (421-
                                           *
       213
3
                                           ) #
                                  6921-
      213,1
 1
                                           ) 5-
                                 4-1043
       2,3*1=3
 *
                                11-121-47
        213
                                6421-42
        2+3=5
 +
                              6121-421
 9
        5,9
                              1154-16421
         529=-4.
                             1120-1000
                                            3.
53+621*35*+
                         4-11-42/1-*
         5
 5
                           486* -.
        5,3
3
                            7-8-16
          8
 +
                                  7
                            7
         816
 6
                            8
                                  3,E
         8,6,2
                                 7,8,6
  2
                                  7,846=48
         8,3
  1
                                   7,48
         24
  *
                                  7-48=-41
 3
         2413
         241315
 5
         24,15
 4
         24+15=39.
  4
```

```
(6-4/2) * (4/2-1)
        ×
                                   3/ = 87 I A
 (
 6
               6
         (
                                   50 - 31 1/3
        (-
               6
  4
       (- 64
                                  F1 = E - 5.5
       (-1
             64
             642
  2
       (-1
  >
             6421-
 4
             6421-
         *
 (
             6421-
        * (
 4
        * (
              6421-4
 1
        *(1 6421-41
                                          215.
              6421-42
 2
        *(1
        * (-
             6421-421
                                          FR
        * (- 6421-42/1
 ł.
              6421-42/1-
 )
         *
               6421-42/1-*
6.
       6
                         6
4
      6141
                        6,4
                    4
2
       6/412
                         6,4,2
       6,2
                         6,2
                                          218
        4
                         4
 2
        A121
                    4
                         4,4
                    2
                         4/4/2
                    1
                         4,2
                         4,2,1
                         4,1
                         441=4
```