Date

```
elif ch = = '(',
      Stack, append [17]
    elif ch = = ' )'.
 while stalk and stalk [-1]! = '('.
          output + = stack, pop "
           18 youk. Pap () # obs, (,
      else!
       while 'sack and stalk [-1]! = 11'
         and prich X=
         PRI( Marche [-1]):
    Output += 830K-prp ()
      Stack, append ( ch)
         # left owes
   while stark!
     output += Stack . pop()
  print ( + portfox : & output 3 '3
   trapero. auritaro
   ## Intio => Predia ##
    Let infin to-prefix (formula)
  ·op - stuck = []
      emp- Stack[]
        for it is formulal:
  if not ch in operator.
          emp - stack append (ch)
           elif : ch = = 11'
        op- stack, append (ch)
        elif ch = = ')';
  while op sack. [-]!= '(1.
      if not ch in operator
   while op- sank and up-18tuck [-1]1
  = E' and PRI [ch] x = PRI [op Stack [-1]:
op = op stack , pop ()
   a = emp - souk. pop ()
```

```
b = emp - Stack, pop ()
  . enp-stuck. append (op+b+a)
      op- sack, append ( dr)
# left arm
     white op-stack!
   op - op - strick, pop ()
      a= emp-stack. pop()
      b = exp-8tuck, prop ()
eap- Shek $. append (op+b+a)
print (+ prefix: 2 enp_8Anck.[-1]9")
. return emp. stack [-17
## three adohess ada code generation ##
 def generate SAC (pos);
printf (' # three address code geneder #)
   erup-strick = []
 for i in pos:
      y i not in operator;
        ery- Such - append (i)
print (+12+4: forp-1-2] } }i3
     { onf - Stuk [-1] 4')
exp = 87nck = exp. Aack [:-2]
    enf- strek append ( +' (+ 9+9')
                t+=1
  enpress = input (" Input the enpression:"
 pre = intist - to - postia (empress)
      pos = infiz - to - postfia (empres)
         generate 3A1 (pos)
```

Sample Output: A=2+4 $B = A^{\dagger} \pm C$ C = B/Xlable A B

det Quadapule (pos): stack = [] for i in pos. for i not in operator: Stock agreed (i) elfi1 == 1 1, { 21 ~439/23: 434". format (1, 0P2, "(-1", 0P1)) else: OPI = stack. pop() op 2 = stack pop() (2:148)", Format (1,0p1,0p2)) OPI = stack. pop () ut Back !=[]; ope = stack , pop () mint. (" 80: 1489 1 21: 1489) print (" the triple for given angresion") print (40P | Ar G1 / Ar G2") Ariple (pos)

RESULT: the program was sucufuly of Eloupiled and reun.