```
1) Find GCD and LCM of 12 and 18:
      GCD Calculation: Use Euclidian Algorithm
           GCD(a,b) = GCD(b, a mod b)
             FCD ( large#, Small #)
          GCD(18,12) = GCD(12, 18 mod 12) = GCD(12,6)
          GCD(12,6) = GCD(6, 12 mod 6) = GCD(6,0)=6
     [FCD(12,18)=6].
     LCM Calculation: VSe LCM Comula that uses GCD:
                LCM(a,b)=(axb)/6-C-D(a,b)
                LCM(12,18)=(12.18)/6CD(12,18)
                 = 21616

LCM(12,18) = 361
      Kesult:
                    1 - CM = 36
  2) Find G-CF and LCM of 8 and 12
     6-CD(n,b) = FCD(b, a mod b) vntil a mod b=0
     6-CD (larger #, smaller #) - communicative
              GCD(12,8) = GCD(8,12 mod 8) = GCD(8A)
              GCD(8,9) = GCF(4, 8 mod 4) = GCD(4,0)=4
              6 CD (8,12) = 4
     LCM:
     LCM (a,b) = (axb)/ (CD (a,b)
    LCM(8,12) = (8×12) (GCO(8,12)
              = 96 14
    L CM(8/12)224
    GCD=9 LCM=29
3) Find G-CD and LCM of 19,21, and 20
   Step 1: Compute G-CD for 2 numbers (14 and 21):
        · CD (21, 14) = 6CD(14, 21 mod 14) = 6CD(14,7)
        6-CD(14/7)=6-CO(7, 14 mol7)=6-CD(7/0)
        GCD(14,21)=7
   Step 2: Compute C-CD for the Result of the
            first GCD caralation and the third rumber
           (7,28) to get final GCD:
       · FCD(28,7) = GCD(7,28 mod)) = GCD(7,0)=7
       16-CD(14,21,20)=71
  Step 3. Compute LCM for two numbers (14 and 21):
        · LCM (14,21)= (14-21)/6-CD(14,21,20)
                    = 294/7
          LCM(4,21)=42
 Step 4: Compute GCD and LCM with result from
          Step 3 and the third number (42,20)
             · G-CD (42,28).
             42 mod 28=14 -> 28 mod 14=0
             G-CD(12/28)= 14
            · L CM (12, 28):
             LCM(42,28) = (42×28)/6-CO(42,28)
           = 1176 / 14
LCM (42,28) = 84
             LCM=84
```