```
2) colculate the milliters of 0.75 M HCI required to neutralise
     completely 28.0 ml of 0.18M Bacott) 2.
           melarity = 0.15M Ba(OH) = and 0.78M HCI
            volume = 250 ml - 0.020 ( Ba (0H) 2
                Baco+) 2 + 2 HC1 - Bac12 + 2H20
       (501'n: mole = (molarity) (volume)
            rolume = mole
                     molarity
      mole of BacoH) = (0.15M) (0.025L) = 0.00375 mde Ba(0#).
      mole of HCI = 0.00375 mole eacOH) 2 × 2 mole HCI = 0.0019 mole HCI
                                           Imol BacoH)2
     volume of HC1 = 0.0075 mole = 0.01 L x 1000 ml
      .. volume of HCI in m1 = 10 m]
3) If 30.0 ml of 0.75 M HOI solution are needed to neutralise a
  solution of ca COH) 2, how many grams of ca COH), much by in the solution?

Given:

molarity = 0.75 M HCI OCHES

volume = 30.0 ml = NOTHCI
 in the solution?
                                (moles) (mol. weight)
  moles Hel = (0.0302) (0.75M) = 0.0225 mole + 0.023 mole Hel
  moles Ca CoH) = 0.023 mol HCl x I mole Ca (OH) = 0.0115 mole
                                               2mol· HCl Ca COH)2
 molar weight = Ca(OH) 2
                 Lo 40.078 g/mol x 2 (acoH) = 74.092 3/mol
                        1.008 g(mol x2
 mass = 0.0118 mole = 0.0116 moles x 74.092 grams
         74-092 9/mol
          .. mass of Ca (OH) = 0.852 grams
```