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# To determine alkalinity of given sample
H2SO4_req = float(input("Enter the volume of H2SO4 required in ml:"))
Sample = float(input("Enter the value of sample in litres:"))
Alkalinity_Removed = H2SO4_req
print("Alkalinity_Removed: ", Alkalinity_Removed, "mg")
Alk_mgperl = Alkalinity_Removed / Sample
print("Total Alkalinity: ", Alk_mgperl, "mg/lit")
OH = float(input("Enter the value of OH-Alkalinity present : "))
Alkalinity_Removed_till_pH_8.3 = float(input("Enter the volume of H2SO4 required in ml:"))
Alkalinity_Removed = H2SO4_req
print("Alkalinity_Removed: ", Alkalinity_Removed, "mg")
CO3_Combined = Alkalinity_Removed / Sample
print("Carbonate Alkalinity upto pH8.3: ", CO3_Combined, "mgperl")
CO3 = CO3_Combined - OH
print("Carbonate Alkalinity: ", CO3, "mg/lit")
HCO3 = Alk_mgperl - 2 * CO3
print("Bicarbonate Alkalinity: ", HCO3, "mg/lit")

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Enter the volume of H2SO4 required in ml: 30
Enter the value of sample in litres: 0.2
Alkalinity_Removed: 30.0 mg
Total Alkalinity: 150.0 mg/lit
Enter the value of OH-Alkalinity present : 5
Enter the volume of H2SO4 required in ml : 11
Alkalinity_Removed: 11.0 mg
Carbonate Alkalinity upto pH8.3: 55.0 mgperl
Carbonate Alkalinity: 50.0 mg/lit
Bicarbonate Alkalinity: 45.0 mg/lit

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