```
# To determine alkalinity of given sample
H2S04_reg = float(input("Enter the volume ofH2S04 required in ml:"))
Sample = float(input("Enter the value of sample inlitres:"))
AlkalinityRemoved = H2S04_reg
print("AlkalinityRemoved: ",AlkalinityRemoved, "'mg")
Alkmgperlit = AlkalinityRemoved/ Sample
print("TotalAlkalinity:",Alkmgperlit,"mg/lit")
OH= float (input("Enter the value of OH-Alkalinity present : "))
#Alkalinity removed till pH of 8.3
H2S04_req = float (input("Enter the volume of H2S04 required in ml :"))
AlkalinityRemoved = H2S04_req
print("AlkalinityRemoved: ",AlkalinityRemoved, "mg")
CO3_Combined = AlkalinityRemoved / Sample
print ("Carbonate Alkalinity upto pH8.3:",CO3_Combined, "mgperlit" )
CO3 = CO3_Combined - OH
print("Carbonate Alkalinity:", CO3,"'mg/lit")
HCO3 =Alkmgperlit - 2*CO3-OH
print("Bicarbonate Alkalinity:", HCO3, "mg/it")
```

```
Enter the volume ofH2S04 required in ml:30
Enter the value of sample inlitres:0.2
AlkalinityRemoved:  30.0 'mg
TotalAlkalinity: 150.0 mg/lit
Enter the value of OH-Alkalinity present : 5
Enter the volume of H2S04 required in ml :11
AlkalinityRemoved:  11.0 mg
Carbonate Alkalinity upto pH8.3: 55.0 mgperlit
Carbonate Alkalinity: 50.0 'mg/lit
Bicarbonate Alkalinity: 45.0 mg/it
```

https://colab.research.google.com/drive/1XFwKTSn-88CmoX_3Fwd4meJelM-7yvQT#printMode=true