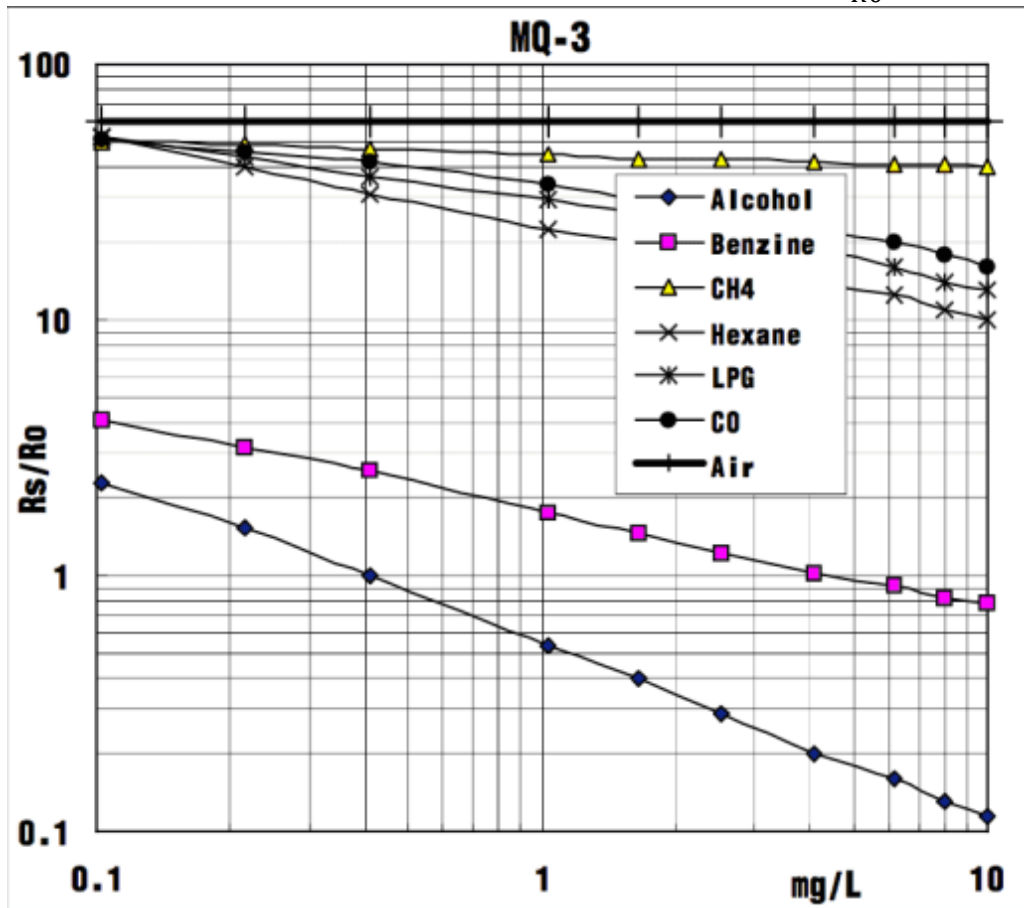


# MQ-3 WITH RASPBERRY PI

(CONVERTING RAW VALUES INTO mg/L)

## INTRODUCTION:

As we follow the datasheet of the MQ-3 sensor, we can that as the concentration of any gas/substance changes MQ-3 Sensor changes its  $\frac{R_s}{R_0}$  ratio.



$R_s$  = Resistance of Sensor towards the target Gas (Alcohol in our case)

(Changes when gas is present)

$R_0$  = Resistance of Sensor when 0.04mg/L Alcohol is present

(Remains constant)

Moreover, the value of  $\frac{R_s}{R_0}$  for clean gas is;

$$\frac{R_s}{R_0} = 60$$



### Finding $R_0$ :

Use the below code for finding  $R_0$  and note it down



For Finding  $R_0$ .py

$R_0$  = \_\_\_\_\_ Ohms

### Finding Concentration in mg/L:

Use the below code for finding Concentration in mg/L and we are done

```
R2 =      #"Enter R2 value"  
R0 =      #"Enter R0 value"
```

First, enter these values then execute the code



For Getting  
concentration.py