

Assignment 2:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

```
import requests
import json
a="https://api.openweathermap.org/data/2.5/weather?q=Tirupati,
IN&appid=45347ffbdf7dcca7d232ee27dd53473c"
r=requests.get (url=a)
data=r.json()
tem=data['main']['temp']
humidity=data['main']['humidity']
```

#Libraries

```
import RPi.GPIO as GPIO
from time import sleep
#Disable warnings (optional)
GPIO.setwarnings(False)
#Select GPIO mode
GPIO.setmode(GPIO.BCM)
#Set buzzer - pin 29 as output
buzzer=29
GPIO.setup(buzzer,GPIO.OUT)
#Run forever loop
while True:
    if(tem>=200 and humidity>=50):
        GPIO.output(buzzer,GPIO.HIGH)
        print ("Beep")
        sleep(0.10) # Delay in seconds
    else:
        GPIO.output(buzzer,GPIO.LOW)
        print ("No Beep")
        sleep(0.10)
```