ASSIGNMENT - 2

Build a python code, Assume u 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.

CODE

```
from machine import Pin
from time import sleep
import dht
sensor = dht.DHT22(Pin(12))
buzzer = Pin(13, Pin.OUT)
while True:
 try:
  sleep(2)
  sensor.measure()
  temp = sensor.temperature()
  if temp > 40:
   buzzer.on()
   print("TEMPERATURE ALERT")
  else:
   buzzer.off()
  hum = sensor.humidity()
  temp_f = temp * (9/5) + 32.0
  print('Temperature: %3.1f C' %temp)
  print('Temperature: %3.1f F' %temp_f)
  print('Humidity: %3.1f %%' %hum)
 except OSError as e:
  print('Failed to read sensor.')
```

INPUT

```
main.py
                         diagram.json
                   from machine import Pin
from time import sleep
                   import dht
                  sensor = dht.DHT22(Pin(12))
buzzer = Pin(13, Pin.OUT)
       5
       7
B
                       true:
try:
    sleep(2)
    sensor.measure()
temp = sensor.temperature()
if temp > 40:
    buzzer.on()
    print("TEMPERATURE ALERT")
else:
    buzzer.off()
                   while True:
     10
     3.3.
     14
     1.5
                          else:

buzzer.off()

hum = sensor.humidity()

temp_f = temp * (9/5) + 32.0

print('Temperature: %3.1f C' %temp)

print('Temperature: %3.1f F' %temp_f)

print('Humidity: %3.1f %%' %hum)
     17
     18
     19
     20
     21
     23
                       except OSError as e:
   print('Failed to read sensor.')
     26
27
```

OUTPUT

