ASSIGNMENT 2

AIM:

Build a **Python code**, Generate Temperature and Humidity values(Use random function to generate values) and write a condition to detect an Alarm in case of high Temperature and Humidity.

Example:

Temp is greater than 30C, play alarm sound. Same for Humidity.

Python Code:

```
import random
from machine import Pin
import dht
import time
dht_sensor = dht.DHT11(Pin(4))
alarm= Pin(5, Pin.OUT)
while True:
  dht_sensor.measure()
  temperature = dht_sensor.temperature()
  humidity = dht sensor.humidity()
  print("Temperature: ", temperature, "°C")
  print("Humidity: ", humidity, "%")
  if temperature > 30 or humidity > 30:
    alarm.on()
  else:
    alarm.off()
    time.sleep(5)
```