# IBM ASSIGNMENT - 2

NAME: REFANA.N

ROLL NO: 963019104006

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

CODE:

```
import time

import adafruit_dht

import board

dht = adafruit_dht.DHT22(board.D2)

while True:

    try:

        temperature = dht.temperature

        humidity = dht.humidity

        # Print what we got to the REPL
```

```
        print("Temp: {:.1f} *C \t Humidity: {}%".format(temperature, humidity))

    except RuntimeError as e:

        # Reading doesn't always work! Just print error and we'll try again

        print("Reading from DHT failure: ", e.args)

    time.sleep(1)
```
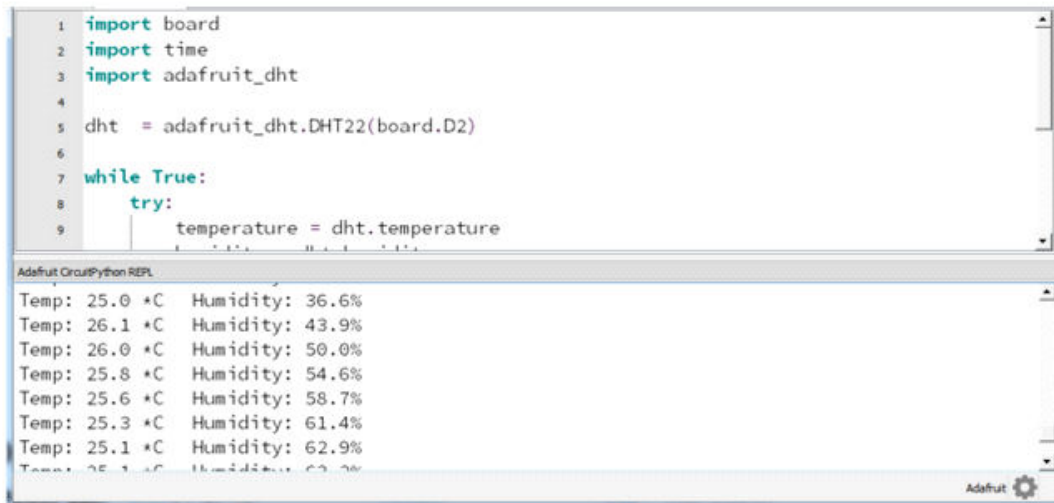
# output:

```
1   import board
2   import time
3   import adafruit_dht
4
5   dht  = adafruit_dht.DHT22(board.D2)
6
7   while True:
8       try:
9           temperature = dht.temperature
```

Adafruit CircuitPython REPL

```
Temp: 25.0 *C   Humidity: 36.6%
Temp: 26.1 *C   Humidity: 43.9%
Temp: 26.0 *C   Humidity: 50.0%
Temp: 25.8 *C   Humidity: 54.6%
Temp: 25.6 *C   Humidity: 58.7%
Temp: 25.3 *C   Humidity: 61.4%
Temp: 25.1 *C   Humidity: 62.9%
```

Adafruit