## **SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES**

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## **ASSIGNMENT 2**

Bulid a python code, assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature

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CODE:
import random as r
temperature = [r.randint(17,40) for in range(5000)]
humidity = [r.randint(45,80) for _ in range(5000)]
i=0
while 1:
  if i==len(temperature):
    break
  if temperature[i] >37 and humidity[i] > 65:
    print(temperature[i])
    print("Temperature is High")
  i+=1
import time
import Adafruit_DHT
DHT_READ_TIMEOUT =
```

```
ADAFRUIT IO KEY = 'YOUR AIO KEY'
ADAFRUIT IO USERNAME = 'YOUR AIO USERNAME'
aio = Client(ADAFRUIT_IO_USERNAME, ADAFRUIT_IO_KEY)
temperature feed = aio.feeds('temperature')
humidity feed = aio.feeds('humidity')
dht22 sensor = Adafruit DHT.DHT22
while True:
  humidity, temperature = Adafruit DHT.read retry(dht22 sensor,
DHT DATA PIN)
  if humidity is not None and temperature is not None:
    print('Temp={0:0.1f}*C Humidity={1:0.1f}%'.format(temperature, humidity
    temperature = '%.2f'%(temperature)
    humidity = '%.2f'%(humidity)
    aio.send(temperature_feed.key, str(temperature))
    aio.send(humidity_feed.key, str(humidity))
  else:
    print('Failed to get DHT22 Reading, trying again in ', DHT_READ_TIMEOUT,
'seconds')
  time.sleep(DHT_READ_TIMEOUT)
```