ASSIGNMENT – 2

INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

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PROGRAM:

import time
importr Adafruit_DHT
from Adafruit_IO import Client, Feed

DHT READ TIMEOUT = 5

 $DHT_DATA_PIN = 26$

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)