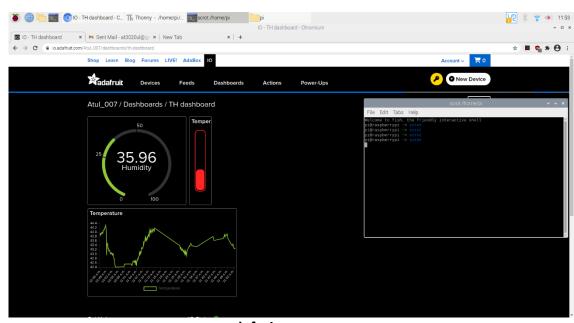
CODE

```
from sense hat import SenseHat
from Adafruit IO import Client, Feed, RequestError
import time
# Adafruit IO credentials
ADAFRUIT_IO_USERNAME =
ADAFRUIT IO KEY = 1
TEMPERATURE_FEED_NAME = 'temperature'
HUMIDITY_FEED_NAME = 'humidity'
# Create an instance of the REST client
aio = Client(ADAFRUIT_IO_USERNAME, ADAFRUIT_IO_KEY)
# Set up Sense HAT
sense = SenseHat()
# Function to initialize Sense HAT
def initialize_sense_hat():
  sense.clear() # Clear any previous LED matrix display
# Function to display data on Sense HAT
def display_data_on_sense_hat(temperature, humidity):
  # Format the data for display
  message = f"Temp: {temperature:.2f} C\nHumidity: {humidity:.2f} %"
  # Display the data on Sense HAT
  sense.show_message(message, scroll_speed=0.05)
# Function to read sensor data and upload to Adafruit IO
def upload_data_to_adafruit():
  try:
    humidity = sense.get_humidity()
    temperature = sense.get temperature()
    if humidity is not None and temperature is not None:
      print(f'Temperature: {temperature:.2f} C, Humidity: {humidity:.2f} %')
      # Send temperature data to Adafruit IO
      temperature feed = aio.feeds(TEMPERATURE FEED NAME)
      aio.send_data(temperature_feed.key, temperature)
      # Send humidity data to Adafruit IO
      humidity feed = aio.feeds(HUMIDITY FEED NAME)
      aio.send_data(humidity_feed.key, humidity)
      # Display data on Sense HAT
      display_data_on_sense_hat(temperature, humidity)
      print('Failed to retrieve data from sensor')
  except Exception as e:
    print(f'Error: {e}')
```

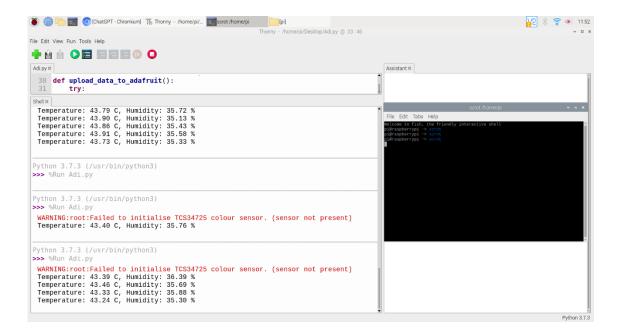
```
# Main loop to continuously read and upload data
while True:
    initialize_sense_hat()

upload_data_to_adafruit()
    time.sleep(5) # Adjust the sleep interval as needed
```

RESULTS



adafruit output



Output at terminal screen