ASSIGNMENT 2

PYTHON CODE FOR DETECTING TEMPERATURE

SUBMITTED BY

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Code:

import tkinter as tk
import random
import datetime
import numpy as np
import time
import threading
import Adafruit_DHT
pin = 4
sensor = Adafruit_DHT.DHT22
def tick():
time2=time.strftime('%H:%M:%S')
clock.config(text=time2)
clock.after(200,tick)
def get_data():
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threading.Timer(5, get_data).start()
humidity, temperature = Adafruit_DHT.read_retry(sensor, pin)
numuity, temperature – Adamuit_Diff.fead_retry(sensor, pin)
if humidity is not None and temperature is not None:
print('Temp={0:0.1f}*C Humidity={1:0.1f}%'.format(temperature,
humidity))
l_display.config(text = temperature)
else:
 1

print('Failed')
return temperature
mainwindow = tk.Tk()
mainwindow.geometry('640x340')
mainwindow.title("Sensor Data Live Feed ")
clock=tk.Label(mainwindow,font=("Arial",30), bg='green',fg="white")
clock.grid(row=0, column=0, padx=10, pady=10, sticky="nsew")
I_m=tk.Label(mainwindow,text="Sensor Data ",font=("Arial",30),fg="Black")
l_m.grid(row=0,column=1, padx=10, pady=10, sticky="nsew")
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I_t=tk.Label(mainwindow, text="Temperature C",font=("Arial",25))
l_t.grid(row=1,column=0, padx=10, pady=10, sticky="nsew")
l_display=tk.Label(mainwindow,font=("Arial",25),fg="red")
l_display.grid(row=1,column=1, padx=10, pady=10, sticky="nsew")
tick()
get_data()
mainwindow.mainloop()