Assignment-2

Python programming

Assignment Date	28-9-2022
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Maximum Marks	2 marks

Question:

Build a python code, assume u get temperature and humidity value with condition

Solution:

Program:

```
import tkinter as tk
import numpy as np
import random
import time
import datetime
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():
  threading.Timer(5,get_data).start()
  humidity,temperature = Adafruit_DHT.read_retry(sensor,pin)
  if humdidity is not and temperature is not none:
    print('Temp={0:0.1f}*c Humidity={1:0.1f}%'.format(temperture,humidity))
     1_display.config(text = temperature)
       print('Failed to get reading. Try again!')
       return temperature
```

```
main window = tk.Tk.()
mainwindow.geometry('640x340')
mainwindow.title("sensor Date 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")
1_m=tk.Label(mainwindow,text="Sensor Data",font=("Arial",30),fg="Black")
```

Output:

```
Humidity=26.8%
Temp=25.6*C
             Humidity=25.2%
Temp=25.1*C
Temp=25.1*C
             Humidity=25.2%
Temp=25.1*C
             Humidity=26.5%
Temp=25.1*C
             Humidity=28.2%
Temp=25.4*C
             Humidity=43.7%
Temp=25.7*C
             Humidity=41.8%
Temp=25.7*C
            Humidity=37.5%
Temp=25.7*C
             Humidity=35.8%
>>> Temp=25.8*C
               Humidity=32.5%
```

Temperature increases or decreases as per the climate chenges

