

Assignment-2

Assignment date	20 th September,2022
Student Name	Gokul Ram S
Roll Number	2019504521
Maximum marks	2 Marks

Question:

Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

Code:

#Done by Gokul Ram(2019504521)

```
import random
import smtplib
from email.message import EmailMessage

thresh=36.5

'''#An optional mail sending function to alert using mail
def send_mail():
    send_add="gokul.subramani33@gmail.com"
    to_add="kgurubaran2006@gmail.com"
    passw='coqoekeamuuckapc'
    s=smtplib.SMTP_SSL("smtp.gmail.com",port=465)
    s.login(send_add,passw)
    msg=EmailMessage()
    msg.set_content("Alert!High temperature detected!!")
    msg['From']="gokul.subramani33@gmail.com"
    msg['To']="Concened_auth@gmail.com"

    s.sendmail(send_add,to_add,msg.as_string())
    s.quit()
```

'''

```
while(True):

    print("****READING HUMIDITY AND TEMPERATURE VALUE****")

    (temp,humidity)=(random.uniform(30,45),random.uniform(30,50))

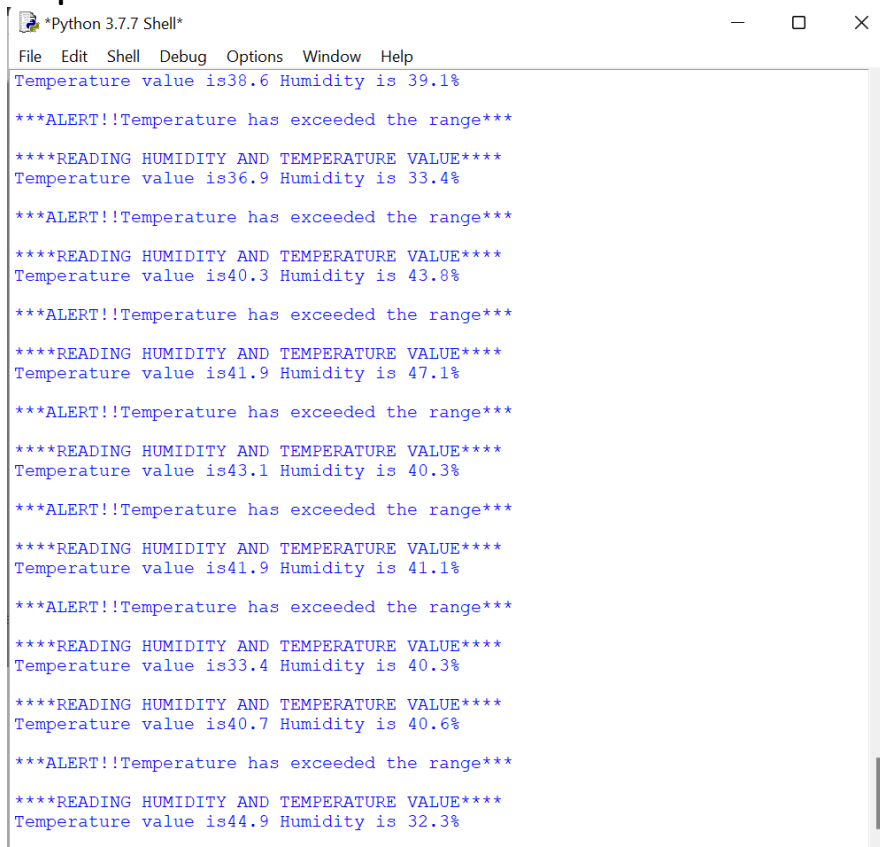
    print("Temperature value is{0:0.1f} Humidity is {1:0.1f}%\n".format(temp,humidity))

    if(temp>thresh):

        #send_mail()

        print("***ALERT!!Temperature has exceeded the range***\n")
```

Output:



```
*Python 3.7.7 Shell*
File Edit Shell Debug Options Window Help
Temperature value is38.6 Humidity is 39.1%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is36.9 Humidity is 33.4%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is40.3 Humidity is 43.8%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is41.9 Humidity is 47.1%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is43.1 Humidity is 40.3%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is41.9 Humidity is 41.1%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is33.4 Humidity is 40.3%
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is40.7 Humidity is 40.6%
***ALERT!!Temperature has exceeded the range***
****READING HUMIDITY AND TEMPERATURE VALUE****
Temperature value is44.9 Humidity is 32.3%
```

