ASSIGNMENT 2   PRAVEEN KUMAR A

PNT2022TMID01111

AIM:

Build a Python code ,Assume you get temperature and humidity values and write a condition to continuously detect the alarm in case of high temperature.

SOFTEARE REQUIRED:

Python – 3.7.0

PYTHON CODE:

```python
import random
from time import sleep
from tkinter import messagebox
a=1
while(a==1):
  temp=random.randrange(0,100)
  if(temp < 50):
    humidity=random.randrange(21,50)

  else:
    humidity=random.randrange(0,20)
```

```python
print("room temperature {} degree celsius".format(temp))

print(" room humidity {}".format(humidity))

if(temp>90 and humidity<50):
    messagebox.showwarning("warning","Horn blows")
    break
a=1
sleep(1)
```
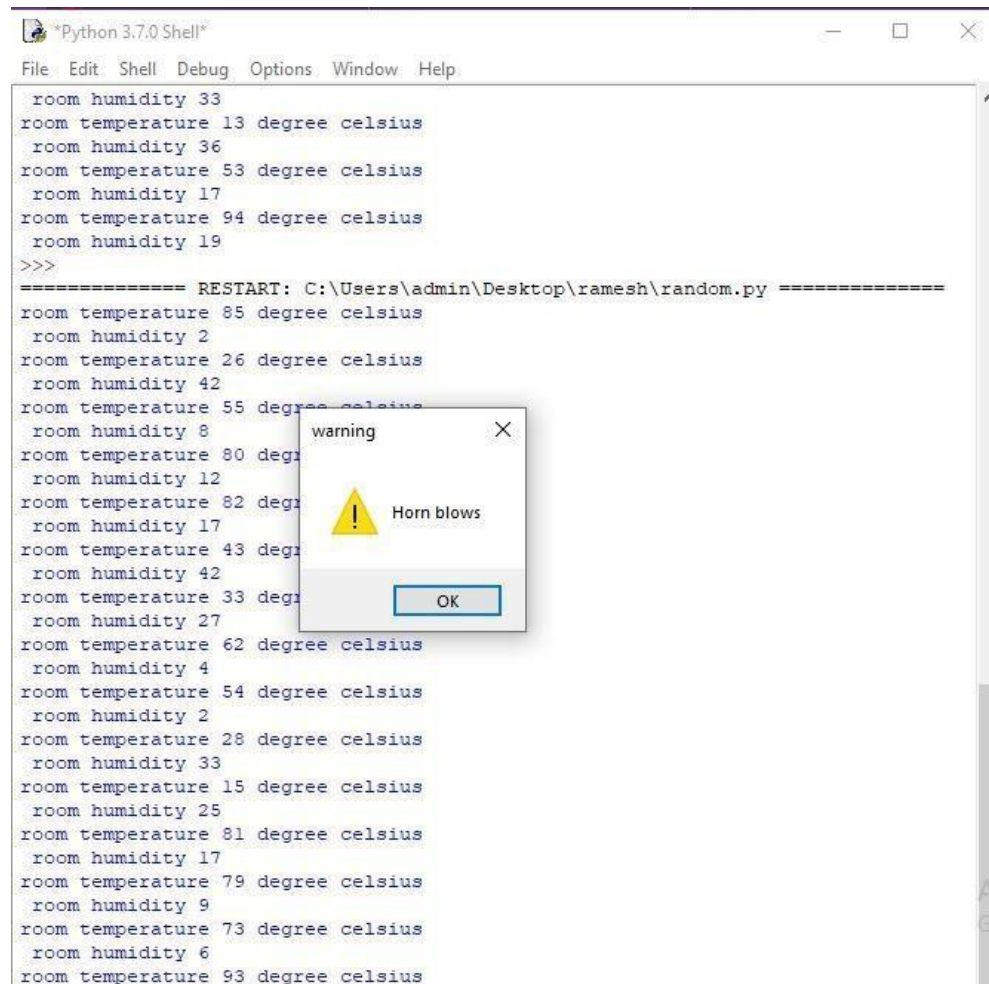
STIMULATION OUTPUT:

REFERANCE LINK:

   We have refered this below links and python program for pop out
dialogue box and random numbers.

- https://www.tutorialspoint.com/python/tk_messagebox.htm#:~:text=The%20tkMessageBox%20module%20is%20used,askokcancel%2C%20askyesno%2C%20and%20askretryignore
- https://www.javatpoint.com/python-tkinter-messagebox
- https://www.geeksforgeeks.org/random-numbers-in-python/

RESULT:

  The python code has been successfully executed and due to high
temperature the alarm is turned ON.