ASSIGNMENT 2   PRASATH V

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:

```
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)
```

```
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)
```
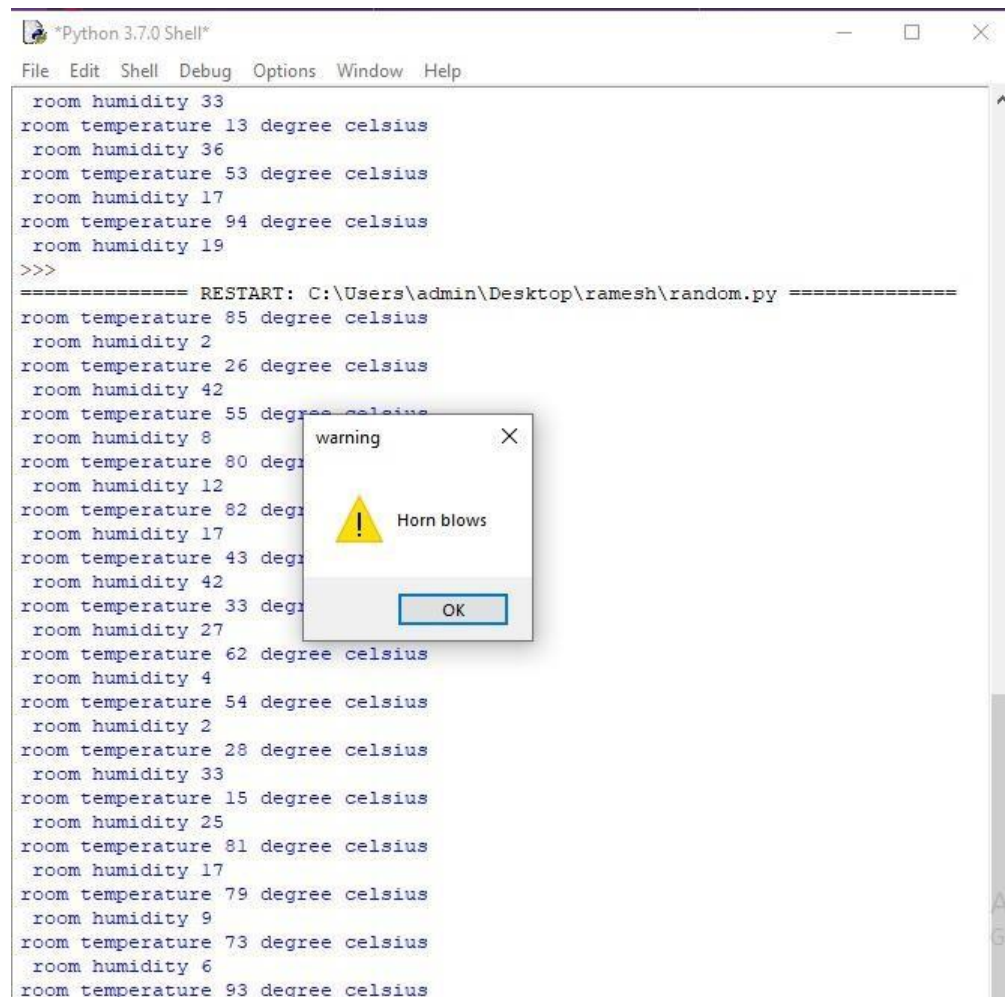
STIMULATION OUTPUT:

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.