ASSIGNMENT 2

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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)</pre>
```

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

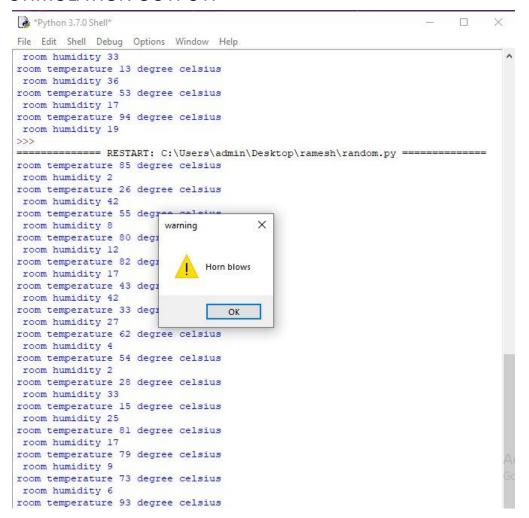
print(" room humidity {}".format(humidity))

if(temp>90 and humidity<50):

messagebox.showwarning("warning","Horn blows")

break
a=1
sleep(1)</pre>
```

STIMULATION OUTPUT:



REFERANCE LINK:

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

- https://www.tutorialspoint.com/python/tk messagebox.htm#:~:t ext=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.