

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.

SOFTWARE 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):
```

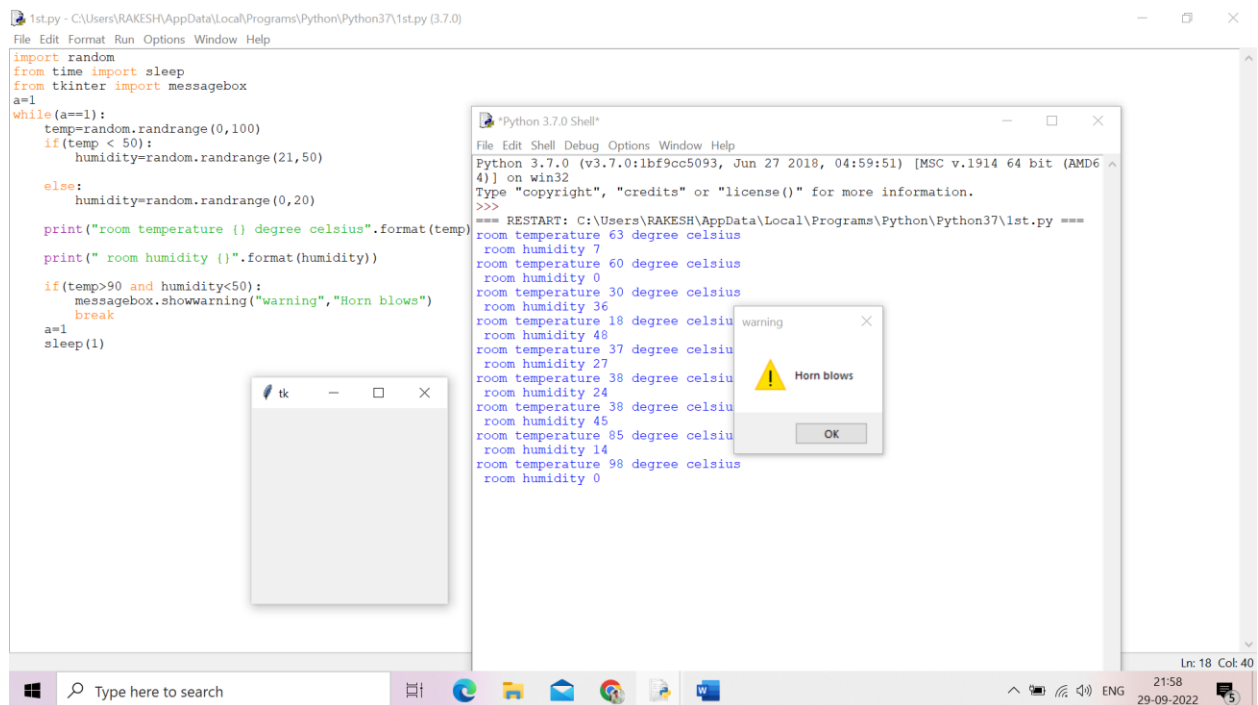
```
    messagebox.showwarning("warning","Horn blows")
```

```
    break
```

```
a=1
```

```
sleep(1)
```

STIMULATION OUTPUT:



REFERENCE 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#:~: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.