

# ASSIGNMENT – 1

Python programming

Assignment Date	2 October 2022
Student name	BITU KUMAR
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Maximum marks	2 marks

PYTHON CODE FOR TEMPERATURE AND HUMIDITY VALUES(GENERATED WITH RANDOM FUNCTION TO A VARIABLE) AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE.

CODING:

```
import random
temp = random.randint(30,150)
hum = random.randint(40,100)

print("generated temperature:",temp)
print("generated humidity:",hum)

if (temp > 60) and (hum > 55):
    print("Alarm ON, both temperature and humidity is higher")
elif(temp < 60) and (hum < 55):
    print("Alarm OFF, both temperature and humidity is lower")
elif (temp > 60) or (hum < 55):
    print("Alarm ON, temperature is higher")
elif (temp < 60) or (hum > 55):
    print("Alarm ON, humidity is higher")
```

## OUTPUT:

```
PS C:\Users\ELCOT\3D Objects\python> & C:/Users/ELCOT/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ELCOT/3D Objects/python/ibm
.py"
generated temperature: 113
generated humidity: 82
Alarm ON, both temperature and humidity is higher
PS C:\Users\ELCOT\3D Objects\python> █
```