

ASSIGNMENT – 2

PYTHON PROGRAM :

```
import random

temperature=random.randint(1,100)

humidity=random.randint(1,50)

print(temperature)

print(humidity)

if((temperature<45)&(humidity<35)):

    print("Temperature is normal")

    print("Humidity is normal")

elif((temperature>45)&(humidity<35)):

    print("Temperature is high")

    print("Humidity is low")

elif((temperature<45)&(humidity>35)):

    print("Temperature is low")

    print("Humidity is high")

elif((temperature>45)&(humidity>35)):

    print("Temperature is high")

    print("Humidity is high")

else:

    print("Temperature is very low")

    print("Humidity is very low")

    print("Alarm off")
```

OUTPUT :

```
Assignment 2 - C:/Users/ELCOT/Desktop/IBM project/Assignment/Assignment 2
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import random
temperature=random.randint(1,100)
humidity=random.randint(1,50)
print(temperature)
print(humidity)
if ((temperature<50)&(humidity<30)):
    print("temperature is normal: ")
    print("humidity is normal: ")
    print("alarm off")
elif ((temperature<50)&(humidity>30)):
    print("temperature is low: ")
    print("humidity is high: ")
    print("alarm off")
elif ((temperature>50)&(humidity<30)):
    print("temperature is high: ")
    print("humidity is high: ")
    print("alarm on")
elif ((temperature>50)&(humidity>30)):
    print("temperature is high: ")
    print("humidity is low: ")
    print("alarm on")
else:
    print("temperature is very low: ")
    print("humidity is very low: ")
    print("alarm off")

Python Shell
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>>>
36
61
temperature is high:
humidity is high:
alarm on
>>> ===== RESTART =====
>>>
69
5
temperature is high:
humidity is high:
alarm on
>>> ===== RESTART =====
>>>
70
19
temperature is high:
humidity is high:
alarm on
>>> ===== RESTART =====
>>>
46
42
temperature is low:
humidity is high:
alarm off
>>> ===== RESTART =====
>>>
56
32
temperature is high:
humidity is low:
alarm on
>>> ===== RESTART =====
>>>
39
36
temperature is low:
humidity is high:
alarm off
```