

ASSIGNMENT – 2

PYTHON PROGRAM :

```
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")
```

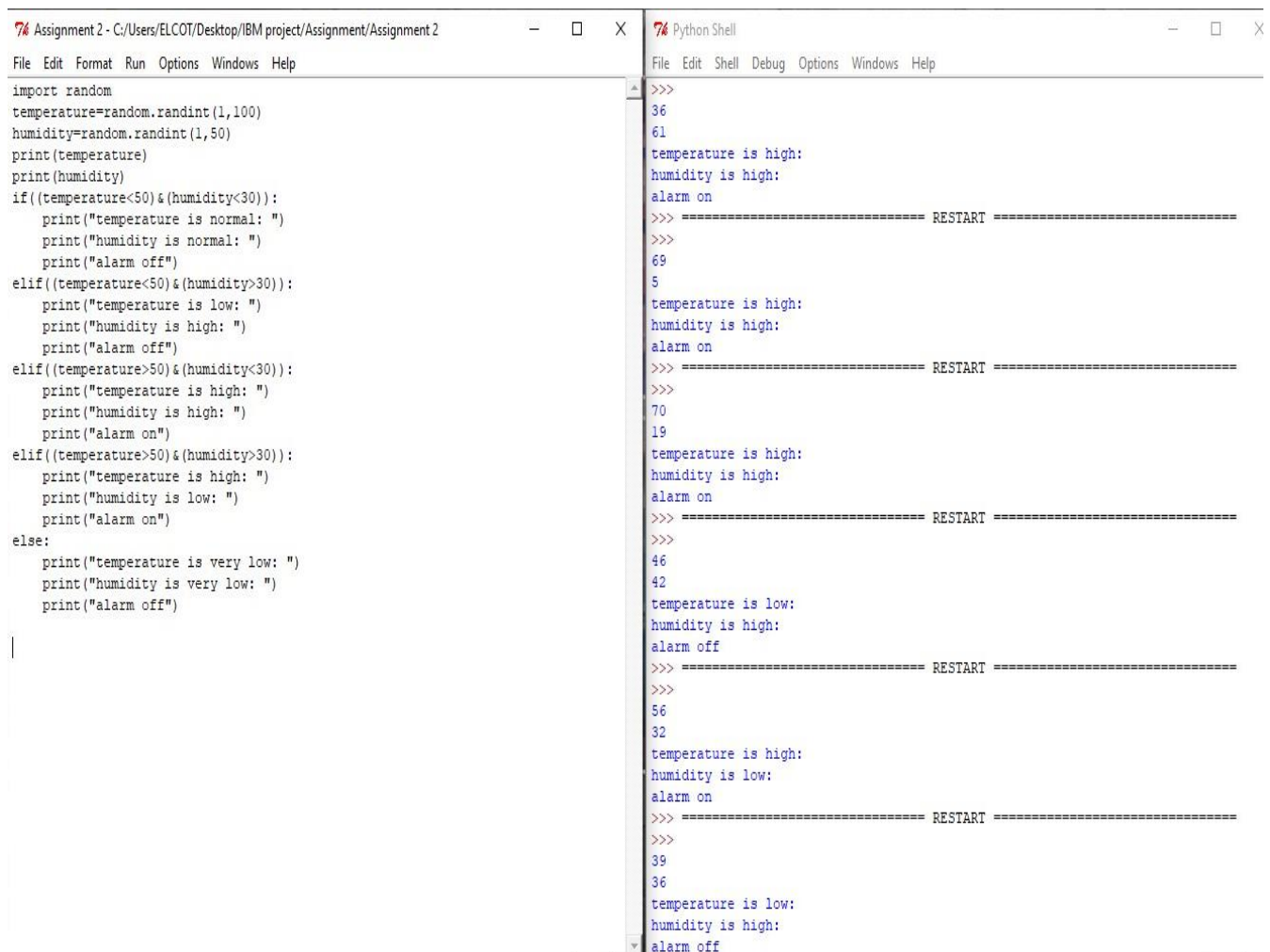
else:

print("Temperature is very low: ")

print("Humidity is very low: ")

print("Alarm off")

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
```