

Assignment -2

Smart Home

Assignment Date	19 September 2022
Student Name	Kiran VM
Student Roll Number	710619106302
Maximum Marks	2 Marks

Code:

```
import random

temperature = random.randint (1,100)

humidity = random (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 on")

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 low")
```

```
print("humidity is low")
```

```
print("alarm off")
```

Output:



```
Python Shell
File Edit Shell Debug Options Windows Help
>>>
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
```