ASSIGNMENT-II

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Problem:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Python code:

```
import random

temp=random.randint (1,100)

hum=random.randint (1,50)

print("random temperature and humidity reading")

if((temp<50) & (hum<35)):

print ("temperature is normal:",temp,"%")

print ("humidity is normal:",hum,"%")

print ("Alarm Off")

elif((temp<50) & (hum<30)):

print("temperature is low:",temp,"%")

print ("humidity is high:",hum,"%")

print ("Alarm Off")

elif((temp>50) & (hum<30)):
```

```
print("temperature is high:",temp,"%")
print ("humidity is high:",hum,"%")
print ("Alarm On")
elif((temp>50) & (hum>30)):
print("temperature is high:",temp,"%")
print ("humidity is low:",hum,"%")
print ("Alarm On")
else:
print("temperature is very low:",temp,"%")
print ("humidity is very low:",hum,"%")
print ("humidity is very low:",hum,"%")
```

code execution:

```
### AS2.py - C:/Users/yusuf/OneDrive/Documents/py shell/AS2.py (3.8.10) — 

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import random
temp=random. randint (1,100)
hum=random.randint (1,500)
```

Output: