Assignment - 2

Assignment Date	25 September 2022
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Maximum Marks	2 Marks

Question :

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 incase of high temperature.

Solution:

Program Code:

```
importrandom#randomfunction

temp=random.randint(1,100)

humty=random.randint(1,100)


print(temp)#temperaturevalue

print(humty)#hmidityvalue
```

```python
if((temp<30)&(humty<50)):
print("temperatureisnormal:")
print("humidityisnormal:")
print("alarmoff")
elif((temp<30)&(humty>50)):
print("temperatureislow")
print("humidityishigh")
print("alarmoff")
elif((temp>30)&(humty<50)):
print("temperatureishigh:")
print("humidityisnormal")
print("alarmon")
elif((temp>30)&(humty<60)):
print("temperatureishigh")
print("humidityisnormal:")
print("alarmon")
elif((temp>30)&(humty>60)):
print("temperatureishigh")
print("humidityishigh")
```

print("alarmon")

```
main.py                              Run        Shell

1    import random#randomfunction              46
2    temp=random.randint(1,100)                55
3    humty=random.randint(1,100)               temperature is high
4    print(temp)#temperaturevalue              humidity is normal:
5    print(humty)#hmidityvalue                 alarm on
6 ▾  if((temp<30)&(humty<50)):                 > |
7        print("temperature is normal:")
8        print("humidity is normal:")
9        print("alarm off")
10 ▾ elif((temp<30)&(humty>50)):
11       print("temperature is low")
12       print("humidity is high")
13       print("alarm off")
14 ▾ elif((temp>30)&(humty<50)):
15       print("temperature is high:")
16       print("humidity is normal")
17       print("alarm on")
18 ▾ elif((temp>30)&(humty<60)):
19       print("temperature is high")
20       print("humidity is normal:")
21       print("alarm on")
22 ▾ elif((temp>30)&(humty>60)):
23       print("temperature is high")
24       print("humidity is high")
25       print("alarm on")
```