IBMASSIGNMENT–2

DOMAIN :IOT
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ASSIGNMENTQUESTION:

Builda python code, assume yougettemperatureandhumidityvalues(generatedwithrandomfunctiontoavariable)andwriteaconditiontocontinuouslydetectalarmincaseofhightemperature.

PYTHONCODE:

```
importrandomimporttimewhile(1!=0):
temperature=random.random()humi
dity=random.random()
 #round(temperature,2)#round(humidity,2)("printTemperature:","%.5f"
  %temperature)print("Humidity:","%.5f"%humidity)time.sleep(2)if(te
 mperature>0.7):print("hightempe
     rature")
 if( humidity>0.7):print("highhumidity")
 print("")
```

EXECUTIONRESULT

Program

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```
import random
import time
while(1!=0):
 temperature = random.random()
 humidity = random.random()
 #round(temperature,2) #round(humidity,2)
 print("Temperature: ","%.5f" % temperature)
 print("Humidity: ","%.5f" % humidity)
 time.sleep(2)
 if (temperature > 0.7):
     print("high temperature")
 if ( humidity >0.7):
     print("high humidity")
 print("")
```

Output

```
Temperature:  0.81853
Humidity:  0.97255
high temperature
high humidity

Temperature:  0.15472
Humidity:  0.05986

Temperature:  0.62464
Humidity:  0.32342

Temperature:  0.83487
Humidity:  0.76008
high temperature
high humidity

Temperature:  0.14701
Humidity:  0.48039

Temperature:  0.79227
Humidity:  0.24788
high temperature

Temperature:  0.87672
Humidity:  0.33046
high temperature

Temperature:  0.67236
Humidity:  0.16511

Temperature:  0.14797
Humidity:  0.59022

Temperature:  0.51479
Humidity:  0.54463

Temperature:  0.25142
Humidity:  0.12738

Temperature:  0.17346
Humidity:  0.24678

Temperature:  0.37653
Humidity:  0.64490
```