## **IOT ASSIGNMENT 2**

**TOPIC:** Build a python code, Assume u 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.

Name: KAMMAATCHI R Roll no: 2116190801075 Code: import random celcius=random.randint(30,120) farenheit=int(celcius\*(9/5)+32) farenheit humidity=random.randint(0,100) print("CELCIUS |","FARENHEIT |","HUMIDITY|") print(celcius, "C° |", farenheit, "F° |", humidity, "% |") print("TEMPERATURE STATUS | HUMIDITY STATUS") if(farenheit > 80 and farenheit < 88): if(humidity < 40): print("Caution and Too Dry") elif(humidity > 60): print("Caution and Too Moist") else: print("Caution") elif(farenheit > 88 and farenheit < 96 and humidity < 40): if(humidity < 40):

print("Extreme Caution and Too Dry")

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elif(humidity > 60):
    print("Extreme Caution and Too Moist")
  else:
    print("Extrem Caution")
elif(farenheit > 96 and farenheit < 100 and humidity < 40):
  if(humidity < 40):
    print("Danger and Too Dry")
  elif(humidity > 60):
    print("Danger and Too Moist")
  else:
    print("Danger")
elif(farenheit > 100 or humidity < 40):
  if(humidity < 40):
    print("Extreme Danger and Too Dry")
  elif(humidity > 60):
    print("Extreme Danger and Too Moist")
  else:
    print("Extreme Danger")
  print("ALARM IS ON")
else:
  print("ALARM IS OFF")
```

## **OUTPUT:**

