## **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.

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Code:
  import random
  celcius=random.randint(-30,120)
  farenheit=int(celcius*(9/5)+32)
  farenheit
  humidity=random.randint(0,100)
  print("-----")
  print("CELCIUS |","FARENHEIT |","HUMIDITY|")
  print(celcius,"C° |",farenheit,"F° |",humidity,"% |")
  print("-----")
  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")
  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:**