**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:SARANMONY R

Roll no :2116190801505

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("----------------------------- -")

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 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 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 and Too Moist")

else:

print("Extreme Danger")

print("ALARM IS ON")

else:

print("ALARM IS OFF")

OUTPUT :

