**Assignment -1**

Python Programming

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| Assignment Date | 21 September 2022 |
| Student Name | Ajin R |
| Student Roll Number | 962319104009 |
| Maximum Marks | 2 Marks |

**Question-1:**

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.

**Program :**

import random

from time import sleep

temp = 0.0

hum = 0.0

while(True):

#here the temperature is considered in celsius

temp = random.random()\*100

#humidity is considerd in percentage , the amount of water contained in per cubic meter of air

hum = random.random()\*100

if(temp > 40 and hum < 30 ):

print()

print("ALERT 🌡️ Temperature is high")

print("Temperature : {:.2f} ".format(temp))

print("Humidity : {:.2f} ".format(hum))

print()

elif(temp < 20 and hum > 50):

print()

print("ALERT ❄️ Temperature is low")

print("Temperature : {:.2f} ".format(temp))

print("Humidity : {:.2f} ".format(hum))

print()

elif((temp >40 and temp >20) and (hum <50 and hum > 30)):

print()

print("Normal 🌍 ")

print("Temperature : {:.2f} ".format(temp))

print("Humidity : {:.2f} ".format(hum))

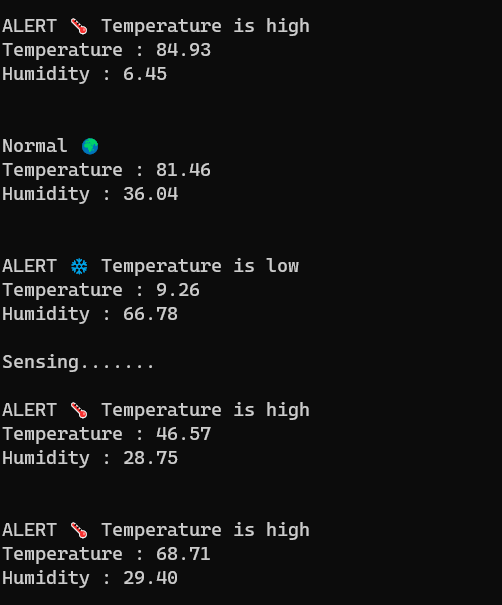
print()

else:

print("Sensing.......")

sleep(1)

**Image :**

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