**ASSIGNMENT-2**

Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

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| Assignment Date | October 2022 |
| Student name | Durkesh D |
| Student Roll no | 19EC023(MECR19EC023) |
| Maximum Marks | 2 marks |

**Question 1**

Write code to Build a python code, Assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

**CODE:**

import random

import time

thresh1=int(input("Enter threshold value for temperature:"))

thresh2=int

(input("Enter threshold value for humidity:"))

hu=0

tp=0

while(True):

temp=random.uniform(1,100)

humidity=random.uniform(1,50)

print("temperature is : {0:.2f}".format(temp))

print("humidity is : {0:.2f} %".format(humidity))

time.sleep(2)

if temp>=thresh1 and humidity<=thresh2:

tp=1

hu=1

print("\nHigh ALERT\nHumidity alarm & Temperature alarm are ON \n")

time.sleep(3)

elif humidity<=thresh2:

tp=0

hu=1

print("\nHumidity alarm is ON & Temperature alarm is OFF \n")

time.sleep(3)

elif temp>=thresh1:

tp=1

hu=0

print("\nHumidity alarm is OFF & Temperature alarm is ON \n")

time.sleep(3)

else:

tp=0

hu=0

print("\nBoth alarms are OFF \n")

time.sleep(3)