ASSIGNMENT – 1

Python programming

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| Assignment Date |  |
| Student name | V. Suriyakala |
| Student roll number | 212019106020 |
| Maximum marks | 2 marks |

Question:

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.

Solution:

import random

# import time

print("Average Temperature of chennai around [38 - 42] degree celcius")

print("Average Humidity of chennai around [70 - 80]")

*def* check():

     while True:

       temp=random.randint(30,70)

       hum=random.randint(50,100)

    #    time.sleep(1)

       print(*f*"\nTEMPERATURE: {temp}  HUMIDITY: {hum}")

       if (temp>37 and temp<=42) and (hum>=70 and hum<=80):

           print("Alarm OFF\nBoth are in NORMAL")

       elif (temp>37 and temp<=42 and hum>50):

         print("Alarm OFF\nTemperature is normal but Humidity is out of average")

       elif (hum>=70 and hum<=80  and temp>30):

         print("ALARM ON\nTemperature is out of range but Humidity is normal")

       else:

            print("Alarm ON \nBoth are out of average")

check()

output:

