

Assignment -2

PYTHON CODE

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

QUESTION-2:

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 winsound
import time

while True:
    temperature = random.randint(-68,49) #Temperarure in Celsius (lowest in Oymyakon and highst in Dallol, Ethiopia)
    humidity = random.randint(0,100) #Humidity in percentage
    print(f"Temperature = {temperature}C ----- Humidity = {humidity}%")
    if temperature>35 and humidity >50:
        for i in range(10):
            winsound.Beep(1000,10)
            print("Alarm is ON")
    else:
        print("Alarm is OFF")
    time.sleep(5)

    print()
    print()
```

Temperature = 21C ----- Humidity = 58%
Alarm is OFF

Temperature = 28C ----- Humidity = 81%
Alarm is OFF

Temperature = -36C ----- Humidity = 100%
Alarm is OFF

Temperature = 45C ----- Humidity = 86%
Alarm is ON

Temperature = -3C ----- Humidity = 44%
Alarm is OFF