

Assignment - 2
SMART HOME USING PYTHON

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

BUILD A PYTHON CODE, ASSUME YOU 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:

1. Implementation Code:

```
import random
import time
from playsound import playsound
while True:
    randomTempVal = random.randrange(50,100)
    randomHumidVal = random.randrange(1,100)
    print("Temperature inside house : " + str(randomTempVal))
    print("Humidity inside the house : " + str(randomHumidVal) + " %")
    if(randomTempVal>50):
        print("Alarm Triggered")
        playsound('emergency.mp3')
    else:
        pass
    time.sleep(5)
```

Note: Any sound file of extension .wav needs to be added in the same directory of the python program before executing it.