



V.S.B. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University)

An ISO 9001:2015 Certified Institution

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ASSIGNMENT-2

Domain Name : Internet Of Things

Team Member : K.Rajeswari

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Aim :

To build a python code by assuming we get the temperature and humidity values (generated with random function to a variable) and to write a condition to continuously detect alarm in case of high temperatures.

CODE :

```
import machine, onewire, ds18x20, time

ds_pin = machine.Pin(22)

ds_sensor = ds18x20.DS18X20(onewire.OneWire(ds_pin))

roms = ds_sensor.scan()

print('Found DS devices: ', roms)

while True:

    ds_sensor.convert_temp()

    time.sleep_ms(750)

    for rom in roms:

        print(rom)

        print(ds_sensor.read_temp(roms))

    time.sleep(5)
```