

V.S.B. ENGINEERING COLLEGE KARUR

ASSIGNMENT-2

REGISTER NUMBER:922519106014

DOMAIN NAME : Internet of Things

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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)
```