

Assignment-2

Python Programming

Assignment Date	21 september 2022
Student Name	Ms.KAVIRATHNA S
Student Register Number	923019106009
Maximum Marks	2 Marks

Question-1:

build a python code ,assume u get temperature and humidity values (generated with random function to a variable) & write a condition to continuously detect alarm in case of high temperature

Solution:

```
import time
```

```
import board
```

```
import adafruit_dht
```

```
import psutil
```

```
# We first check if a Libgpiod process is running.If yes, we kill it!
```

```
for proc in psutil.process_iter():
```

```
    if proc.name() == 'libgpiod_pulsein' or proc.name() == 'libgpiod_pilsei':
```

```
        proc.kill()
```

```
sensor = adafruit_dht.DHT11(board.D23)
```

```
while True:
```

```
    try:
```

```
        temp = sensor.temperature
```

```
    humidity = sensor.humidity
    print("Temperature: {}*c Humidity: {}%".format(temp, humidity))
except RuntimeError as error:
    print(error.args[0])
    time.sleep(2.0)
    continue
except Exception as error:
    sensor.exit()
    raise error

time.sleep(2.0)
```