

ASSIGNMENT-2

Date	10 October 2022
Team ID	PNT2022TMID47588
Project Name	Smart Solutions for Railways
Maximum Marks	

BUILD A PYTHON CODE, ASSUME U GET TEMPERATURE AND HUMIDITY VALUES AND WRITE A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE.

```
#from machine import Pin
```

```
import random
```

```
from time import sleep
```

```
#btn=Pin(4,Pin.IN)
```

```
while True:
```

```
temp=random.randint(1,100)
```

```
print("current temp=",temp)
```

```
humid = random.randint(1,100)
```

```
print("current humid=",humid)
```

```
if(temp>=50and humid<35):
```

```
print("Alarm On")
```

```
else:
```

```
print("Alarm Off")
```

```
sleep(2)
```

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main.py

Run

Shell

Clear

```
1 #from machine import Pin
2 import random
3 from time import sleep
4 #btn=Pin(4,Pin.IN)
5 while True:
6     temp=random.randint(1,100)
7     print("current temp=",temp)
8     humid = random.randint(1,100)
9     print("current humid=",humid)
10 if(temp>=50and humid<35):
11     print("Alarm On")
12 else:
13     print("Alarm Off")
14 sleep(2)
```

```
current temp= 29
current humid= 86
current temp= 41
current humid= 4
current temp= 29
current humid= 22
current temp= 86
current humid= 12
Alarm On
current temp= 4
current humid= 63
current temp= 35
current humid= 42
current temp= 92
current humid= 10
Alarm On
current temp= 56
current humid= 86
current temp= 31
current humid= 45
current temp= 8
current humid= 15
current temp= 6
```