# SMART SOLUTION FOR RAILWAYS

## ASSIGNMENT 2

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|---|---|
| Date | **08.10.2022** |
| Team ID | **PNT2022TMID37898** |
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| Roll No | **410819104012** |
| Maximum marks | **2 MARKS** |

**Question:**

Build the python program assume that 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:**

```
import time

import temp_DHT

period=60

##Sensor date reporting period(1 minute)

pin=4

##Assuming the DHT11 sensor is connected to GPIO pin number 4

temp_resource=Resource(bbt,'RaspberryPi','temperature')

humid_resource=Resource(bbt,'RaspberryPi','humidity')

def run():

  while True:
```

```
 ###Assume
 if humidity,temperature=temp_DHT.read_retry(temp_DHT.DHT11,pin)
print*Temp=(0:f)*C Humidity=(1:f)%”format(temperature,humidity)
try:
#send temperature to Beebotte
temp_resource.write(temperature)
#send humidity to Beebotte
humid_resource.write(humidity)
except Exception:
##Process exception here
print *Error while writing to Beebotte*
else:
print *Failed to get reading. Try again!”
#Sleep some time
time.sleep(period)
```

## OUTPUT:


File Edit Shell Debug Options Windows Help
>>> ========== RESTART ==========
>>>
Temp=26.00*C Humidity=44.00%
Temp=26.00*C Humidity=45.00%
Temp=27.00*C Humidity=43.00%
Temp=27.00*C Humidity=43.00%
Temp=27.00*C Humidity=43.00%
Temp=26.00*C Humidity=44.00%
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Temp=26.00*C Humidity=39.00%
Temp=27.00*C Humidity=43.00%
Temp=27.00*C Humidity=47.00%
Temp=27.00*C Humidity=45.00%
Temp=27.00*C Humidity=47.00%
Temp=27.00*C Humidity=48.00%
Temp=28.00*C Humidity=56.00%
Temp=27.00*C Humidity=53.00%
Temp=27.00*C Humidity=52.00%
Temp=27.00*C Humidity=51.00%
Temp=27.00*C Humidity=51.00%