EXCEL ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

IOT ASSIGNMENT -2

SMART SOLUTION FOR RAILWAYS

ASSIGNMENT QUESTION:

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

PYTHON CODE:

```
import random import
time while(1!=0):

 temperature = random.random() humidity =
 random.random() #round(temperature,2)

 #round(humidity,2) ("print Temperature:
 ","%.5f" % temperature) print("Humidity:
 ","%.5f" % humidity) time.sleep(2) if
 (temperature > 0.7): print("high temperature")

 if ( humidity >0.7): print("high

     humidity") print(")
```

EXECUTION RESULT

Program

File Edit Format Run Options Window Help

```
import random
import time
while(1!=0):
 temperature = random.random()
 humidity = random.random()
 #round(temperature,2) #round(humidity,2)
 print("Temperature: ","%.5f" % temperature)
 print("Humidity: ","%.5f" % humidity)
 time.sleep(2)
 if (temperature > 0.7):
     print("high temperature")
 if ( humidity >0.7):
     print("high humidity")
 print("")
```

Output

```
Temperature:  0.81853
Humidity:  0.97255
high temperature
high humidity

Temperature:  0.15472
Humidity:  0.05986

Temperature:  0.62464
Humidity:  0.32342

Temperature:  0.83487
Humidity:  0.76008
high temperature
high humidity

Temperature:  0.14701
Humidity:  0.48039

Temperature:  0.79227
Humidity:  0.24788
high temperature

Temperature:  0.87672
Humidity:  0.33046
high temperature

Temperature:  0.67236
Humidity:  0.16511

Temperature:  0.14797
Humidity:  0.59022

Temperature:  0.51479
Humidity:  0.54463

Temperature:  0.25142
Humidity:  0.12738

Temperature:  0.17346
Humidity:  0.24678

Temperature:  0.37653
Humidity:  0.64490
```