

## DEVELOP A PYTHON SCRIPT

<b>TEAM ID</b>	PNT2022TMID14030
<b>PROJECT NAME</b>	Signs with Smart Connectivity for Better Road Safety

### STEPS TO DEVELOP A PYTHON SCRIPT:

**STEP-1:** Install Python IDLE 3.7 from any browser.

**STEP-2:** Open PYTHON IDLE. Click on File->New file. A new screen opens.

**STEP-3:** Develop a python program to satisfy the required needs.

**STEP-4:** Save the file and click Run-> Run Module.

**STEP-5:** The program gets executed and it reports any error if present, else produces the output.

### PYTHON CODE:

```
File Edit Format Run Options Window Help
import requests #importing a library
import json
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys

# watson device details
organization = "2s1yyf"
deviceType = "project"
deviceId = "project:d"
authMethod = "token"
authToken = "projecttoken"

#generate random values for random variables (temperature, humidity)

def myCommandCallback(cmd):
    global a
    #print("Command received: %s" % cmd.data['command'])
    #status=cmd.data['command']
    #print("Command received: %s" % cmd.data['command'])
    control=cmd.data['command']
    print(control)

try:
    deviceOptions={"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device %s" % str(e))
    sys.exit()

#connect and send a datapoint "temp" with value integer value into the cloud as a type of event for every 10 seconds
deviceCli.connect()
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

# get sensor data f
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\libm\PROJECTFINALDND.py =====
2022-11-13 16:19:45,474 ibmiotf.device.Client INFO Connected successfu
lly: d:2s7yyj:project:projectid
Temp= data['mai published Temperature = 301.14 c humidity:89 %
Humd= data['mai ('alert': 'PLEASE SLOW DOWN!!!!!!')
data= {'temp':7 ('dista': 1)
dist=random.ra published Temperature = 301.14 c humidity:89 %
dis=({'dista':di ('alert': 'PLEASE SLOW DOWN!!!!!!')
('dista': 1)
if (Humd<100): published Temperature = 301.14 c humidity:89 %
warn=({'ale ('alert': 'PLEASE SLOW DOWN!!!!!!')
if (dist<20): ('dista': 1)
insta=({'in published Temperature = 301.14 c humidity:89 %
('alert': 'PLEASE SLOW DOWN!!!!!!')
('dista': 1)
published Temperature = 301.14 c humidity:89 %
def myOnPublis ('alert': 'PLEASE SLOW DOWN!!!!!!')
('dista': 15)
print("pub published Temperature = 301.14 c humidity:89 %
print(warn ('alert': 'PLEASE SLOW DOWN!!!!!!')
print(dis) ('dista': 15)
published Temperature = 301.14 c humidity:89 %
('alert': 'PLEASE SLOW DOWN!!!!!!')
('dista': 15)
published Temperature = 301.14 c humidity:89 %
('alert': 'PLEASE SLOW DOWN!!!!!!')
('dista': 15)
success=device
success=device
success=device
success=device
if not success:
print("not

Ln: 5 Col: 0
```

