## Project Development Phase Sprint - 1

Date	29 October 2022
Team ID	PNT2022TMID18041
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2

## **Data Generation:**

Using random function in python, the required sensor data have been generated and published to IBM Watson IoT Platform.

## **Python Source Code:**

```
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgld": "sc7zij",
"typeId": "NodeMCU",
"deviceId":"12345"
"auth": {
"token": "12345678"
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" %cmd.data['command'])
  m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  myData={'d':{'temperature':temp, 'humidity':hum}}
  client.publishEvent(eventId="Data", msgFormat="json", data=myData,
qos=0,onPublish=None)
  print("Published data Successfully: %s", myData)
  client.commandCallback = myCommandCallback
```

time.sleep(2)
client.disconnect()

## **Output:**

