

## Project Development Phase Sprint 1

Date	25 October 2022
Team ID	PNT2022TMID04593
Project Name	Smart waste management system for metropolitan cities
Maximum Marks	8 Marks

### Python script and output

In sprint 1 we have developed the code for smart waste management and seen output in python idle.

```
File Edit Format Run Options Window Help
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "kmqq03"
deviceType = "BIN1"
deviceId = "BINID"
authMethod= "token"
authToken = "123456789"

#generate random values for random variables for distance and loadcell

def myCommandCallback(cmd): global a
print("command recieved:%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 "distance and loadcell" with value integer value into the cloud as a type of event for every 10 seconds
deviceCli.connect()

while True:

distance= random.randint(10,70) loadcell= random.randint(5,15)
data= {'dist':distance,'load':loadcell}

if loadcell < 13 and loadcell > 15: load = "90 %"
```

\*Python 3.7.8 Shell\*

File Edit Shell Debug Options Window Help

Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 08:53:46) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\aksha\OneDrive\Desktop\bin4.py =====

2022-11-12 14:34:04,621 ibmiotf.device.Client INFO Connected successfully: d:ms9s4l:Project:TMID01046

Chennai

published distance = 26 loadcell:12 lon = 78.135731 lat = 10.939091

0 %

Risk warning:dumpster is above 60%

alert :No need to collect right now

Chennai

published distance = 26 loadcell:12 lon = 78.135731 lat = 10.939091

0 %

Risk warning:dumpster is above 60%

alert :No need to collect right now

Chennai

published distance = 59 loadcell:8 lon = 78.135731 lat = 10.939091

0 %

Risk warning:40 %

alert :No need to collect right now

Chennai

published distance = 59 loadcell:8 lon = 78.135731 lat = 10.939091

0 %

Risk warning:40 %

alert :No need to collect right now

Chennai

published distance = 59 loadcell:8 lon = 78.135731 lat = 10.939091

0 %

Risk warning:40 %

alert :No need to collect right now

Chennai

published distance = 59 loadcell:8 lon = 78.135731 lat = 10.939091

0 %

Risk warning:40 %

alert :No need to collect right now

Chennai

published distance = 63 loadcell:15 lon = 78.135731 lat = 10.939091

0 %

Risk warning:17 %

alert :No need to collect right now

Chennai

published distance = 63 loadcell:15 lon = 78.135731 lat = 10.939091

0 %

Risk warning:17 %

alert :No need to collect right now

Chennai

published distance = 32 loadcell:12 lon = 78.135731 lat = 10.939091

Ln: 5 Col: 0

25°C  
Rain to stop



Search

ENG  
IN

14:35  
12-11-2022