**TEAM ID**: PNT2022TMID16088

**PROJECT**: SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

## **SPRINT 1**

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

```
# Project : Smart Waste Management
# Team ID : PNT2022TMID01046
 import requests import json
 import ibmiotf.application
 import ibmiotf.device
 import time
import sys
# watson device details
organization = "ms9s41"
devicType = "Froject"
devicEdd = "TMID01046"
authMethod= "token"
authToken= "13150415"
#generate random values for randomo variables for distance and loadcell
def myCommandCallback(cmd):
      print("command recieved:%s" %cmd.data('command'))
control=cmd.data['command']
      print(control)
          deviceOptions={"org": organization, "type": devicType, "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()
     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 (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:ms9s41: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
Risk warning:40 %
alert : No need to collect right now
Chennai
published distance = 59 loadcell:8 lon = 78.135731 lat = 10.939091
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
Risk warning:40 %
alert : No need to collect right now
Chennai
published distance = 63 loadcell:15 lon = 78.135731 lat = 10.939091
0.8
Risk warning:17 %
alert : No need to collect right now
Chennai
published distance = 63 loadcell:15 lon = 78.135731 lat = 10.939091
Risk warning:17 %
alert : No need to collect right now
Chennai
published distance = 32 loadcell:12 lon = 78.135731 lat = 10.939091
```