

Project Development Phase Sprint 1

Date	25 October 2022
Team ID	PNT2022TMID01046
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.

```
bin4.py - C:\Users\aksha\OneDrive\Desktop\bin4.py (3.7.8)
File Edit Format Run Options Window Help

# Project : Smart Waste Management
# Team ID : PNT2022TMID01046
import requests
import json
import ibmiotf.application
import ibmiotf.device
import time
import random
import sys

# watson device details
organization = "ms9s41"
devicetype = "Project"
deviceId = "TMID01046"
authMethod = "token"
authToken = "13150415"

#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 %"

Ln: 1 Col: 0
```

Python 3.7.8 Shell

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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

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