**Sprint – 3:**

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| Date | 02 November 2022 |
| Team ID | PNT2022TMID18193 |
| Project Name | SMART SOLUTION FOR RAILWAYS |
| Maximum Marks | 4 Marks |

Python code:

import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

organization = "9y2uod"

deviceType = "Microcontroller"

deviceId = "1407"

authMethod = "token"

authToken = "9585786415"

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()

deviceCli.connect()

def publish(data):

def myOnPublishCallback():

print("Published data: %s", data)

success = deviceCli.publishEvent("micro\_event","json",data,qos=0,on\_publish=myOnPublishCallback) #uploading data onto the IBM IoT Platform...

if not success:

print("Not connected to IoTF")

while True:

data = {'name' : 'Vaigai EXP', 'lat' : 17.6387448,'long' : 78.4754336}

publish(data)

time.sleep(3)

data = {'name' : 'Vaigai EXP', 'lat' : 17.6341908,'long' : 78.4744722}

publish(data)

time.sleep(3)

data = {'name' : 'Vaigai EXP', 'lat' : 17.6340889,'long' : 78.4745052}

publish(data)

time.sleep(3)

data = {'name' : 'Vaigai EXP', 'lat' : 17.6248626,'long' : 78.4720259}

publish(data)

time.sleep(3)

data = {'name' : 'Vaigai EXP', 'lat' : 17.6188577,'long' : 78.4698726}

publish(data)

time.sleep(3)

data = {'name' : 'Vaigai EXP', 'lat' : 17.6132382,'long' : 78.4707318}

publish(data)

time.sleep(3)

deviceCli.disconnect()

