

Date	22November2022
TeamID	PNT2022TMID49482
ProjectName	IoT based Safety Gadget for Child Safety Monitoring & Notification
MaximumMarks	4 marks

CODING:

```

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "y417wz"
deviceType = "rasberrypi"
deviceId = "demp1"
authMethod = "token"
authToken = "123456789"

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 "hello" with value "world" into
the cloud as an event of type "greeting" 10 times

```

```
deviceCli.connect()
while True:
    #Get Sensor Data from DHT11

    name="seetha"
    latitude=13.0474878
    longitude=80.0689245

    data = { 'name' : name, 'lat': latitude, 'lon':longitude }
    #print data
    def myOnPublishCallback():
        print ("Published name = %s " % name, "lat = %s " %
latitude, "longit = %s " % longitude, "to IBM Watson")

    success = deviceCli.publishEvent("IoTSensor", "json", data,
qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(5)

    deviceCli.commandCallback = 'myCommandCallback'

client.disconnect()
```