SOURCE CODE

TEAM ID: PNT2022TMID17406

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "933n2d"
deviceType = "koushik47"
deviceId = "07"
authMethod = "token"
authToken = "87654321"
#api key  {a-illza1-mbdxqo6z0s}
#api token {zSYzISuAWF&F_x7GkT}


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
print("power on ")
```

```
print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
print()
name=str(input("enter your child name:"))
while True:


    temperature=random.randint(20,85)#random temperature for your child
    latitude=random.uniform(12.1295314,12.1335137)#random latitude for your child
    longitude=random.uniform(78.1955059,78.1986357)#random longitude for your child
    a="Child inside the geofence"
    b=" Child outside the geofence"
    c="High temperature"
    d="Low temperature"
    x={'your_child_zone':a}
    y={'your_child_zone':b}
    z={'temp_condition':c}
    w={'temp_condition':d}



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

```
        print("\n")
    success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if latitude>=12.1303598 and latitude<=12.1321095 and longitude >=78.1967589 and longitude
<=78.19820833:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publish=myOnPublishCallback)
        print(x)
        print("\n")
    else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publish=myOnPublishCallback)
        print(y)
        print("\n")


    if (temperature>=40):

deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publish=myOnPublishCallback)
            print(z)
            print("\n")
    else:

deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=myOnPublishCallback)
            print(w)
            print("\n")



    if not success:
        print("Not connected to IoTF")
        print("\n")
    time.sleep(1)
```

```
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```