DEVELOPING PYTHON SCRIPT

Date	29 October 2022
Team ID	PNT2022TMID08691
Project Name	Project - IOT based saftey gadget for child safety monitoring and notification

CODE :

Location data :

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


# Provide your IBM
Watson
DeviceCredentials
organization = "efj778"
deviceType = "node"
deviceId = "1234"
authMethod = "token"
authToken = "12345678"
# 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(dev
iceOptions)
#
.....
.....
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, 50)
# random temperature
for your child
latitude =
random.uniform(10.7813
77, 10.78643)  # random
latitude for your child
longitude =
random.uniform(79.1291
13, 79.134014)  #
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("I
oTSensorgpsdata",
"json", data, qos=0,
```

```
on_publish=myOnPublish
Callback)
if latitude >= 10.78200
and latitude <=
10.786000 and longitude
>= 79.130000 and
longitude <= 79.133000:

deviceCli.publishEvent("I
oTSensorgpsdata",
"json", data=x, qos=0,
on_publish=myOnPublish
Callback)
   print(x)
   print("\n")
else:

deviceCli.publishEvent("I
oTSensorgpsdata",
"json", data=y, qos=0,
on_publish=myOnPublish
Callback)
   print👆
   print("\n")

if (temperature > 35):

deviceCli.publishEvent("I
```

```
oTSensorgpsdata",
"json", data=z, qos=0,
on_publish=myOnPublish
Callback)
   print(c)
   print("\n")
else:

deviceCli.publishEvent("I
oTSensorgpsdata",
"json", data=w, qos=0,
on_publish=myOnPublish
Callback)
   print(d)
   print("\n")

if not success:
   print("Not connected
to IoTF")
   print("\n")
   time.sleep(3)
# Disconnect the device
and application from the
cloud
deviceCli.disconnect()
```