**TEAM ID: PNT2022TMID21355**

**TOPIC: PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT**

# PYTHON CODE TO IBM WATSON IOT PLATFORM MEDICINE REMINDER :

## CODE:

```python
import time

import sys

import ibmiotf.application

import ibmiotf.device

import random


#Provide your IBM Watson Device Credentials

organization = "dan4dl"

deviceType = "raspberrypi"

deviceId = "23456"

authMethod = "token"

authToken = "8989898989"


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()
```

```python
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type
"greeting" 10 times
deviceCli.connect()


while True:
    for i in range(0,20):
        tablet=["Paracetamol","Aspirine","Azithral","Asthalin","Sinarest"]
        medicinetime=[12.00,1.00,2.00,3.00,5.00,18.00,20.00,7.00]
        medicine=random.choice(tablet)
        medicinetime=random.choice(medicinetime)
        name="rekha"
        mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
        #print data
        def myOnPublishCallback():
            print ("Published name = %s " % name, "Medicine name = %s" % medicine,"Medicine
time = %s" % medicinetime, "to IBM Watson")
        success = deviceCli.publishEvent("IoTSensor", "json", mydata, qos=0,
on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(1)
time.sleep(5)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

**CODE SNAPSHOT:**

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

#Provide your IBM Watson Device Credentials
organization = "dan4dl"
deviceType = "raspberrypi"
deviceId = "23456"
authMethod = "token"
authToken = "8989898989"

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:
        for i in range(0,20):
                tablet=["Paracetamol","Aspirine","Azithral","Asthalin","Sinarest"]
                medicinetime=[12.00,1.00,2.00,3.00,5.00,18.00,20.00,7.00]
                medicine=random.choice(tablet)
                medicinetime=random.choice(medicinetime)
                name="rekha"
                mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
                #print data
                def myOnPublishCallback():
                    print ("Published name = %s " % name, "Medicine name = %s" % medicine,"Medicine time = %s" % medicinetime, "to IBM Watson")

                success = deviceCli.publishEvent("IoTSensor", "json", mydata, qos=0, on_publish=myOnPublishCallback)
                if not success:
                        print("Not connected to IoTF")
                time.sleep(1)
            |
time.sleep(5)

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

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# OUTPUT:

```
Published name = rekha  Medicine name = Asthalin Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 2.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 5.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 2.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 7.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 1.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 1.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 5.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 2.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 5.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 1.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 5.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 18.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 2.0 to IBM Watson
Published name = rekha  Medicine name = Paracetamol Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 12.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 7.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 2.0 to IBM Watson
Published name = rekha  Medicine name = Sinarest Medicine time = 3.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Azithral Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Aspirine Medicine time = 20.0 to IBM Watson
Published name = rekha  Medicine name = Asthalin Medicine time = 20.0 to IBM Watson
```

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# IOT PLATFORM OUTPUT:

divyameena@student.tce.edu
ID: dan4dl

Browse   Action   Device Types   Interfaces

Add Device

The recent events listed show the live stream of data that is coming and going from this device.

| Event | Value | Format | Last Received |
|-------|-------|--------|---------------|
| IoTSensor | {"Patient Name":"rekha","Medicine Name":"Asth... | json | a few seconds ago |
| IoTSensor | {"Patient Name":"rekha","Medicine Name":"Azith... | json | a few seconds ago |
| IoTSensor | {"Patient Name":"rekha","Medicine Name":"Sinar... | json | a few seconds ago |
| IoTSensor | {"Patient Name":"rekha","Medicine Name":"Asth... | json | a few seconds ago |
| IoTSensor | {"Patient Name":"rekha","Medicine Name":"Aspir... | json | a few seconds ago |

| > | ☐ | 552001 | Disconnected | raspberrypi | Device | Nov 17, 2022 12:25 PM |

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0 Simulations running