

SPRINT-4

Date	19 November 2022
Team ID	PNT2022TMID42240
Project Name	Project – Personal Assistance for Seniors who are Self-Reliant
Maximum Marks	4 Marks

CASE:

To develop a python script to receive data from node-red by using IBM Watson IoT platform

INPUT:

```
import wiotp.sdk.device
import time
import random
import playsound
from datetime import datetime
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
myConfig = {
    "identity": {
        "orgId": "jwl2wf",
        "typeId": "SalmanDevice",
        "deviceId": "SalmanDevice_1"
    },
    "auth": {
        "token": "e3DwTZGGA1Y?0BD*s9"
    }
}

def myCommandCallback(cmd):
```

```

print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
if(m=="Medicine Taken"):
    print("Medicine Intaken\nThank You!!")
else:
    print("*****")
    print("Take Your Medicine")
    print("*****")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

authenticator = IAMAuthenticator('mc6GkVtcmmR8o5UIAk5-jhyvsmieCN8nhJ-Xc7awmRly')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.eu-gb.text-to-
speech.watson.cloud.ibm.com/instances/2ff7f2d9-da46-4f46-bbda-fad6e9f83882')

now = datetime.now()
current_time = now.strftime("%H:%M")
print("Current Time =", current_time)

while True:
    with open('z.mp3','wb') as audio_file:
        audio_file.write(
            text_to_speech.synthesize(
                'take your respected medicine',
                voice='en-US_AllisonV3Voice',

```

```

        accept='audio/wav'

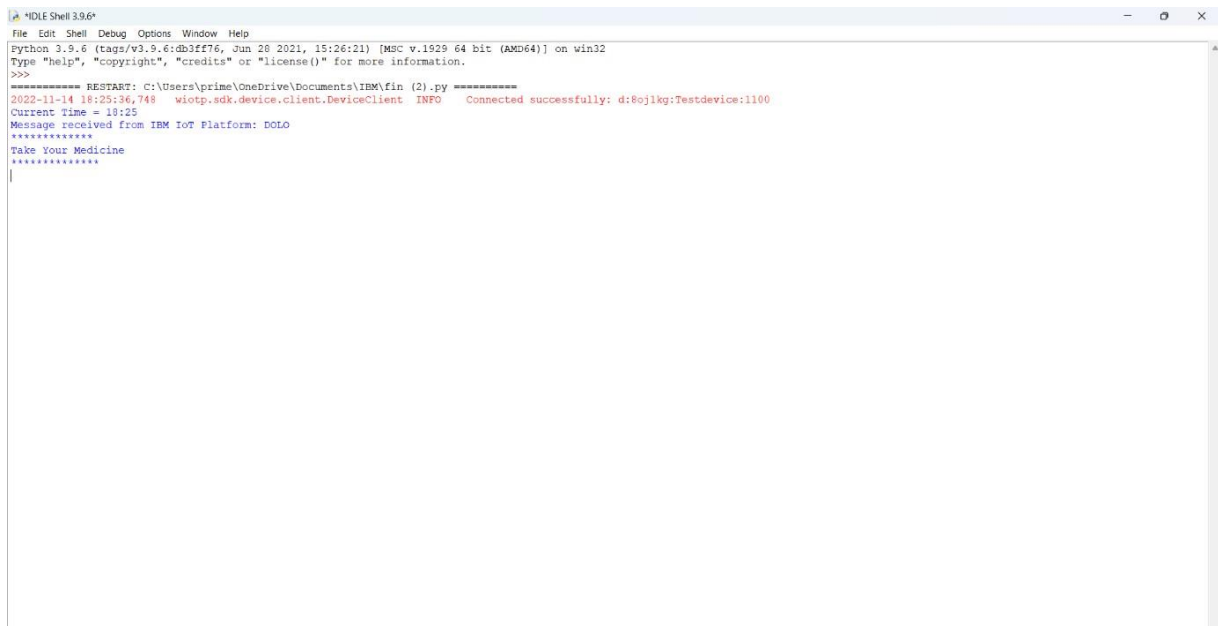
    ).get_result().content)

    client.publishEvent(eventId="test", msgFormat="json", data="z.mp3", qos=0,
onPublish=None)

    client.commandCallback = myCommandCallback
client.disconnect()

```

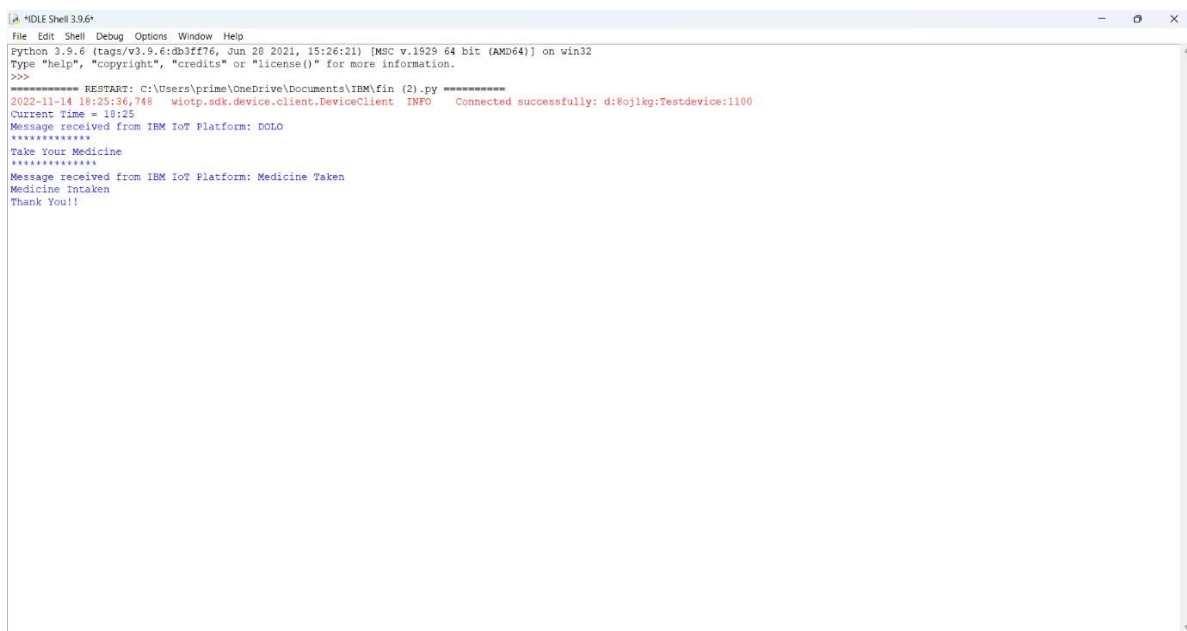
OUTPUTS:



```

IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\prime\OneDrive\Documents\IBM\fin (2).py =====
2022-11-14 18:25:36,748 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:8ojlkg:Testdevice:1100
Current Time = 18:25
Message received from IBM IoT Platform: DOLO
=====
Take Your Medicine
=====
|

```



```

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File Edit Shell Debug Options Window Help
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Message received from IBM IoT Platform: DOLO
=====
Take Your Medicine
=====
Message received from IBM IoT Platform: Medicine Taken
Medicine Intaken
Thank You!!

```

