SPRINT-4

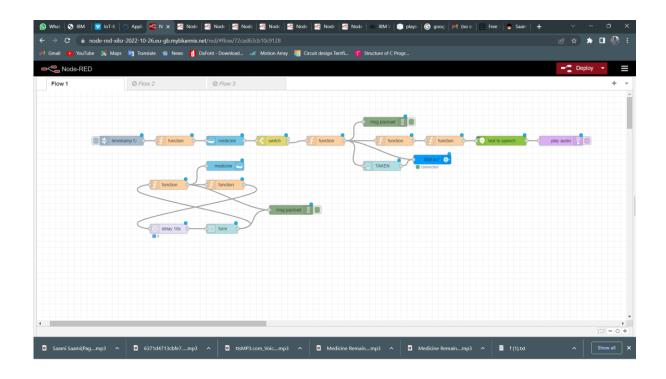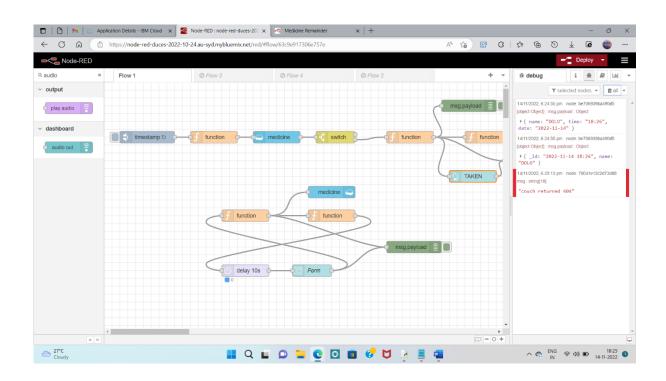| Date	19 September 2022
Team ID	PNT2022TMID42262
Project Name	Project – Personal Assistance for Seniors who are Self-Reliant
Maximum Marks	4 Marks

CASE:

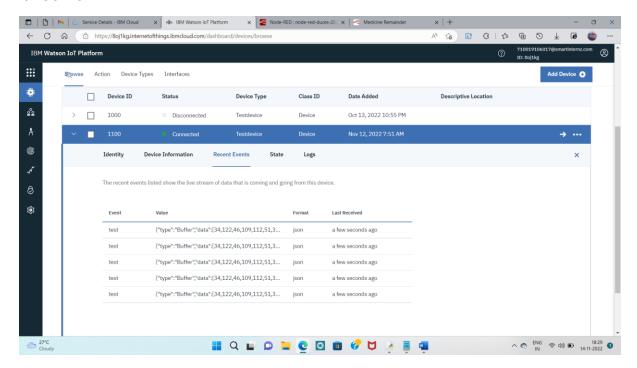To develop a python script to receive data from node-red by using IBM Watson IoT platform

INPUT:

NODE RED FLOW AND OUTPUT:

IoT OUTPUT:

PYTHON SCRIPT:

```python
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": "pje2x1",
        "typeId": "Test1",
        "deviceId":"555"
    },
    "auth": {
        "token": "Thiyagu@21"
    }
}


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")
    else:
        print("*************")
        print("Take Your Medicine")
        print("*************")


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

```python
authenticator = IAMAuthenticator('07htoTDmlEv0F75vmA5YDyCz7mIINscQ0zbrT2p-vrNm')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)


text_to_speech.set_service_url('https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/instances/3346a3b2-4ad2-4fc1-a1f4-c78784c1e0b8')


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: