Covid Patient Health Monitoring System
Features:

Monitoring the covid patients through the mobile app
patients are given a wearable device using which they can get body temperature, pulse rate and BP values
the wearable device will be sending the health parameters to the IBM IoT platform.
nurse or doctors can monitor their health status even when they are not near the patients through the app
if the patients health parameters are abnormal they will be alerted with the message notifications.

CODE

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "d9cbnt",
        "typeId": "Firstdevice",
        "deviceId":"09876"
    },
    "auth": {
        "token": "1234567890"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

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

while True:
    bodytemp=random.randint(-20,125)
```
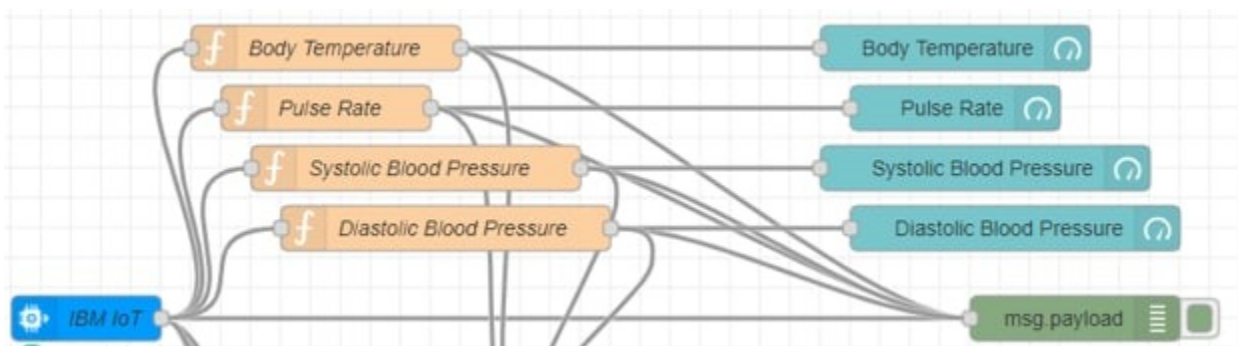
```
    bloodpres=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

NODE-RED

MIT OUTPUT

Patients Health Parameters

Body Temperature 99.7

Pulse Rate 47

Systolic Blood Pressure 114

Diastolic Blood Pressure 72