Assignment – 4

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Q. Develop a mobile application that takes the user input and sends it to IoT device (python code). Print the received data in python shell. Keep a text box to accept the user input. Integrate a submit button. Whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL(HTTP API).

Code:

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "b9uud8",
        "typeId": "VITint",
        "deviceId":"207450"
    },
    "auth": {
        "token": "987654321"
    }
}
```

```python
def myCommandCallback(cmd):

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

    print()


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

client.connect()


while True:

    client.commandCallback = myCommandCallback

    time.sleep(2)

client.disconnect()
```

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Ln: 23   Col: 11

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 (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\harsh\OneDrive\Desktop\pythonlearn\ibmiot.py ========
2021-07-19 21:09:36,740   wiotp.sdk.device.client.DeviceClient   INFO    Connecte
d successfully: d:b9uud8:VITint:207450
Message received from IBM IoT Platform: Switch ON Light
```

Ln: 5   Col: 0

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Harshith   Screen1 ▾   Add Screen ...   Remove Screen   Publish to Gallery   Designer   Blocks

Palette   **Viewer**   **Components**   **Properties**

Search Components...   ⊟ 📱 Screen1   TextBox1

User Interface   ☐ Display hidden components in Viewer   ⊟ 🔲 HorizontalArrangement1   BackgroundColor
                                                                    A Label1   ■ Default
Layout   Phone size (505,320) ▾   ⊟ 🔲 HorizontalArrangement2
                                                                    A Label2   Enabled
Media   🔲 TextBox1   ☑
                                                                    🔲 Button1
Drawing and Animation   🔲 9:48   🌐 Web1   FontBold
                                                                                        ☐
Maps   FontItalic
                    IoT Device   ☐
Sensors
                    Enter the input: FontSize
Social   16.0
                    _____
Storage   FontTypeface
                    Submit   default ▾
Connectivity
                                                                                        Height
⚡ ActivityStarter ?   Automatic...

📶 BluetoothClient ?   Width
                                                                                        Fill parent...
📶 BluetoothServer ?   Rename   Delete
                                                                                        Hint
📶 Serial   ?   **Media**   Hint for TextBox1

🌐 Web   ?   Upload File ...   MultiLine
                                                                                        ☐
LEGO® MINDSTORMS®
                                                                                        NumbersOnly
Experimental   ☐

Extension   ReadOnly
                                                                                        ☐
```