VIT SMART BRIDGE IOT EXTERNSHIP PROGRAM

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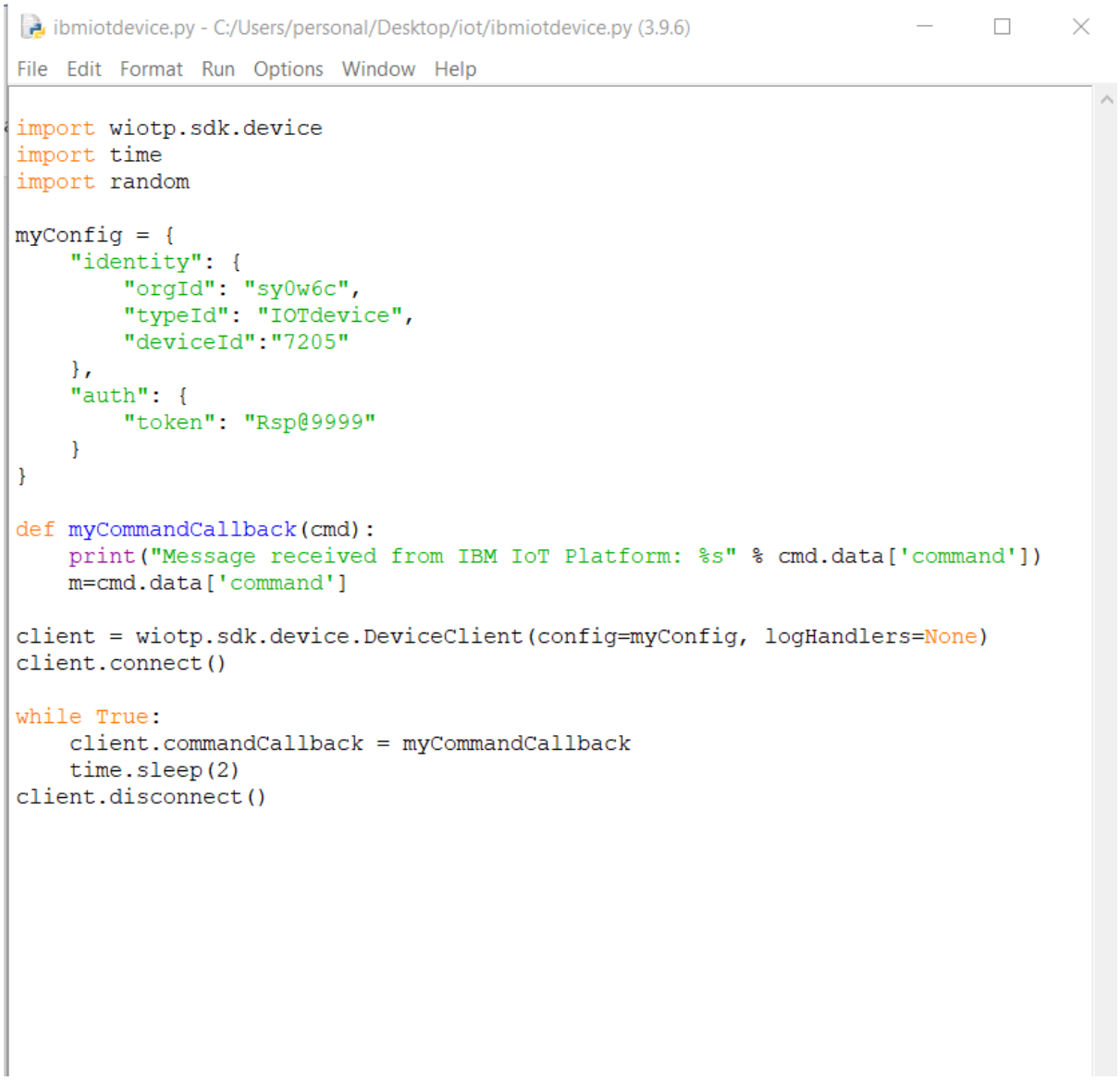
Assignment-4:

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:




```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "sy0w6c",
        "typeId": "IOTdevice",
        "deviceId":"7205"
    },
    "auth": {
        "token": "Rsp@9999"
    }
}

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:
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

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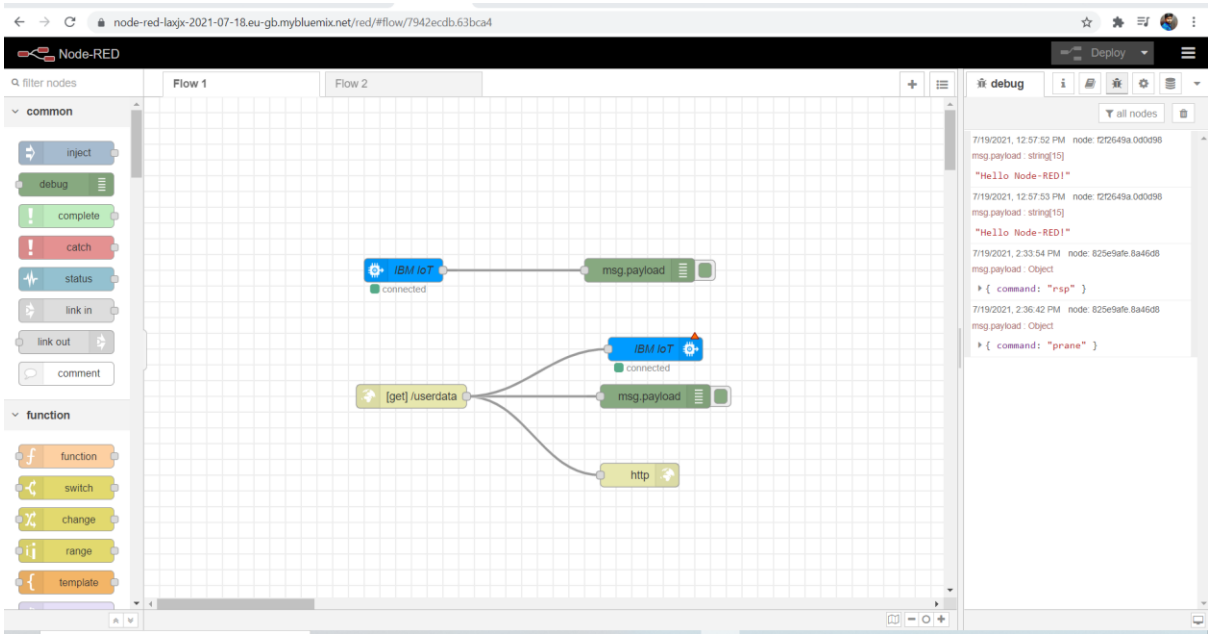
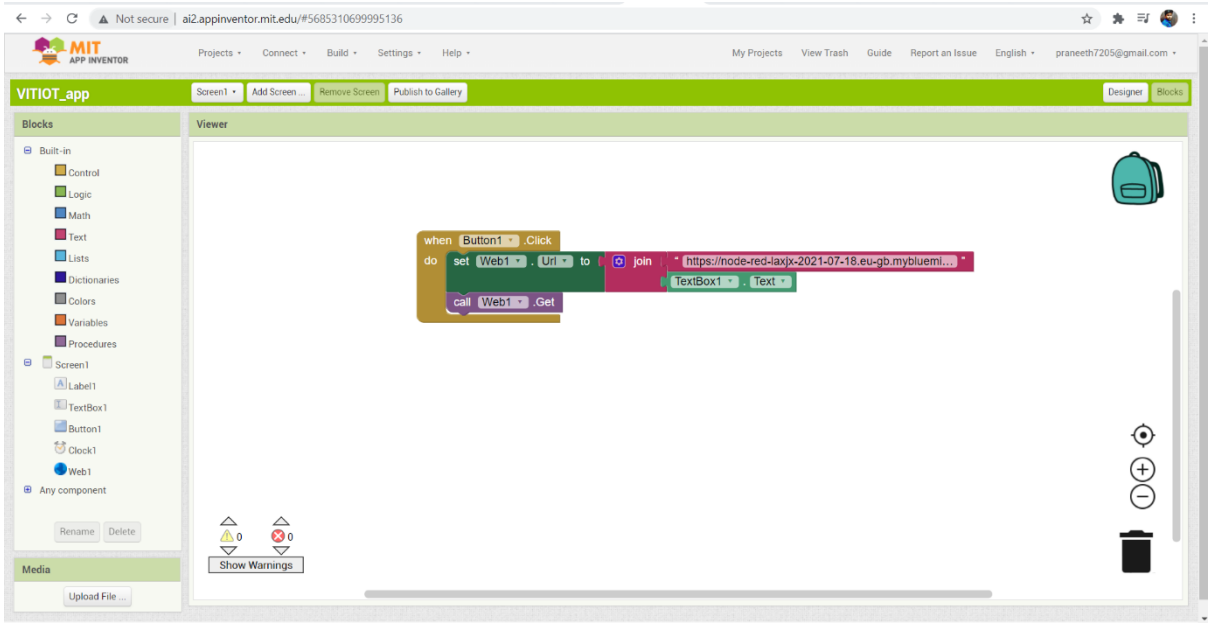
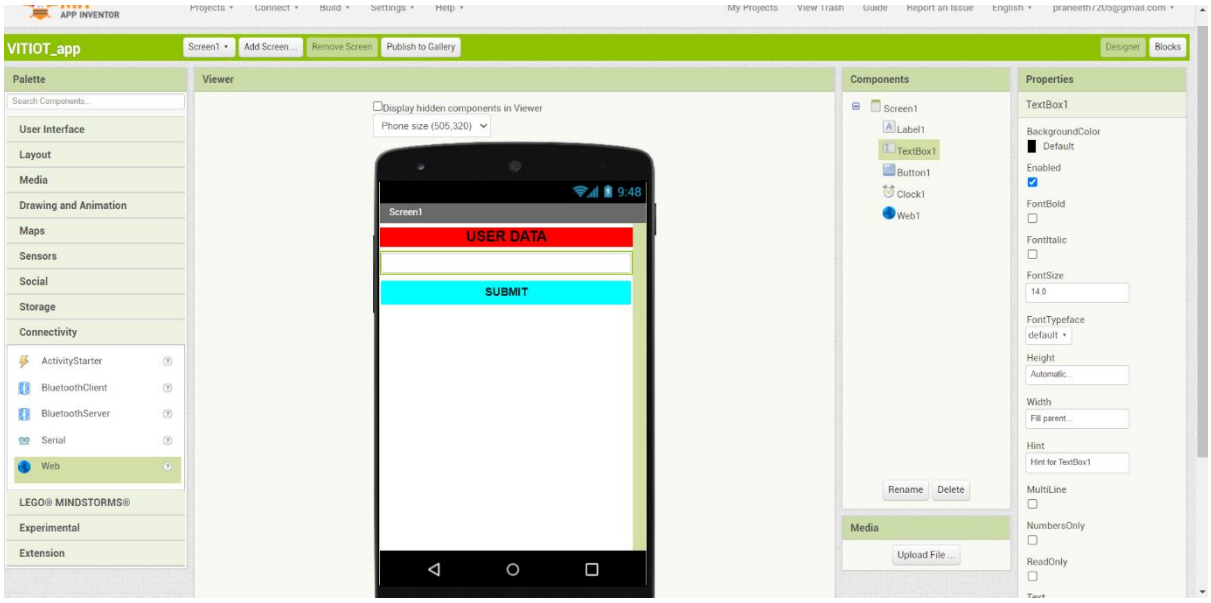



Not secure | ai2.appinventor.mit.edu/#5685310699995136
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
praneeth7205@gmail.com
VITIOT_app
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
Label1
TextBox1
Button1
Clock1
Web1
Any component
Rename
Delete
Media
Upload File ...
Viewer
when Button1 .Click
do set Web1 . Url to join "https://node-red-laxjx-2021-07-18.eu-gb.mybluemi..."
TextBox1 . Text
call Web1 .Get
Show Warnings


VITIOT_app
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Search Components...
User Interface
Layout
Media
Drawing and Animation
Maps
Sensors
Social
Storage
Connectivity
ActivityStarter
BluetoothClient
BluetoothServer
Serial
Web
LEGO® MINDSTORMS®
Experimental
Extension
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
Screen1
USER DATA
SUBMIT
Components
Screen1
Label1
TextBox1
Button1
Clock1
Web1
Rename
Delete
Media
Upload File ...
Properties
TextBox1
BackgroundColor
Default
Enabled
FontBold
FontItalic
FontSize
14.0
FontTypeface
default
Height
Automatic
Width
Fill parent...
Hint
Hint for TextBox1
MultiLine
NumbersOnly
ReadOnly

OUTPUT:


2:45
Screen1
USER DATA
Prane
SUBMIT


debug
all nodes
7/19/2021, 12:57:52 PM node: f2f2649a.0d0d98
msg.payload : string[15]
"Hello Node-RED!"
7/19/2021, 12:57:53 PM node: f2f2649a.0d0d98
msg.payload : string[15]
"Hello Node-RED!"
7/19/2021, 2:33:54 PM node: 825e9afe.8a46d8
msg.payload : Object
{ command: "rsp" }
7/19/2021, 2:36:42 PM node: 825e9afe.8a46d8
msg.payload : Object
{ command: "prane" }