Assignment-4

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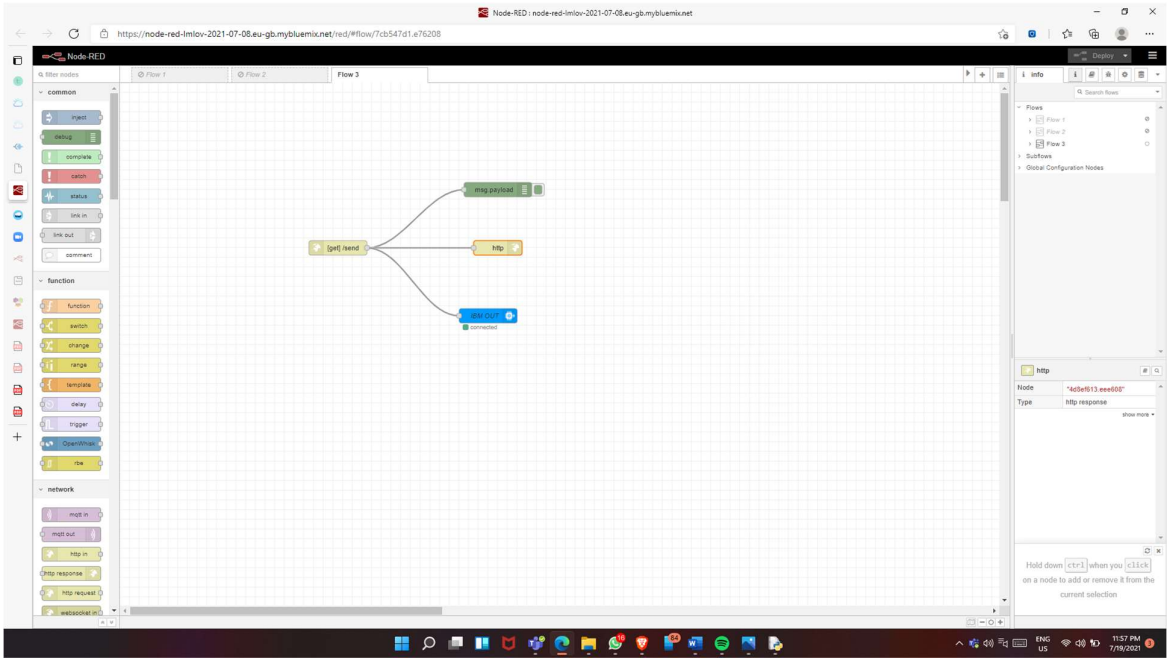
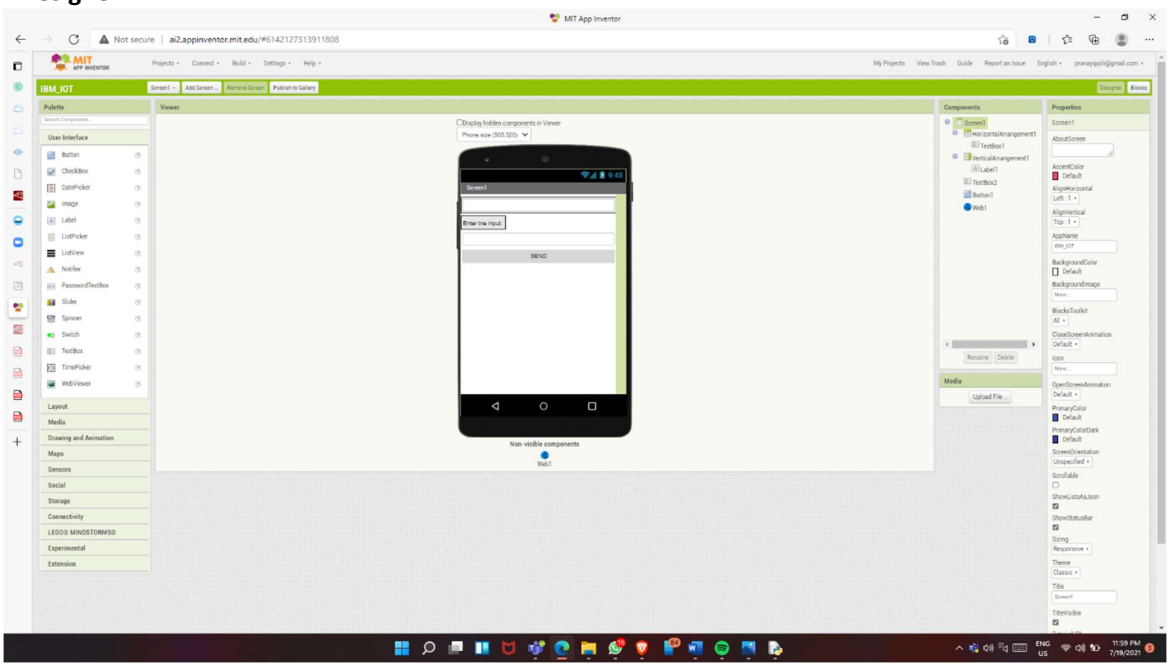
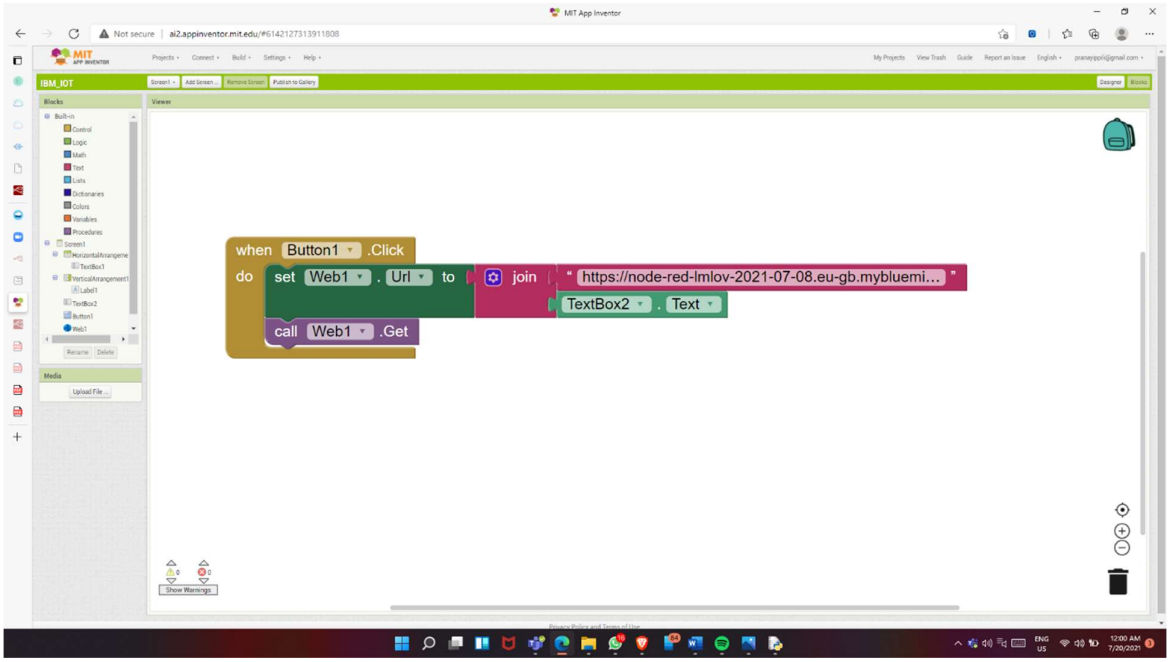
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.Keep a text box to accept the user input.integrate a submit button.whenever user enters the text input in text box and clicks the button the data should be sent to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



Designer:

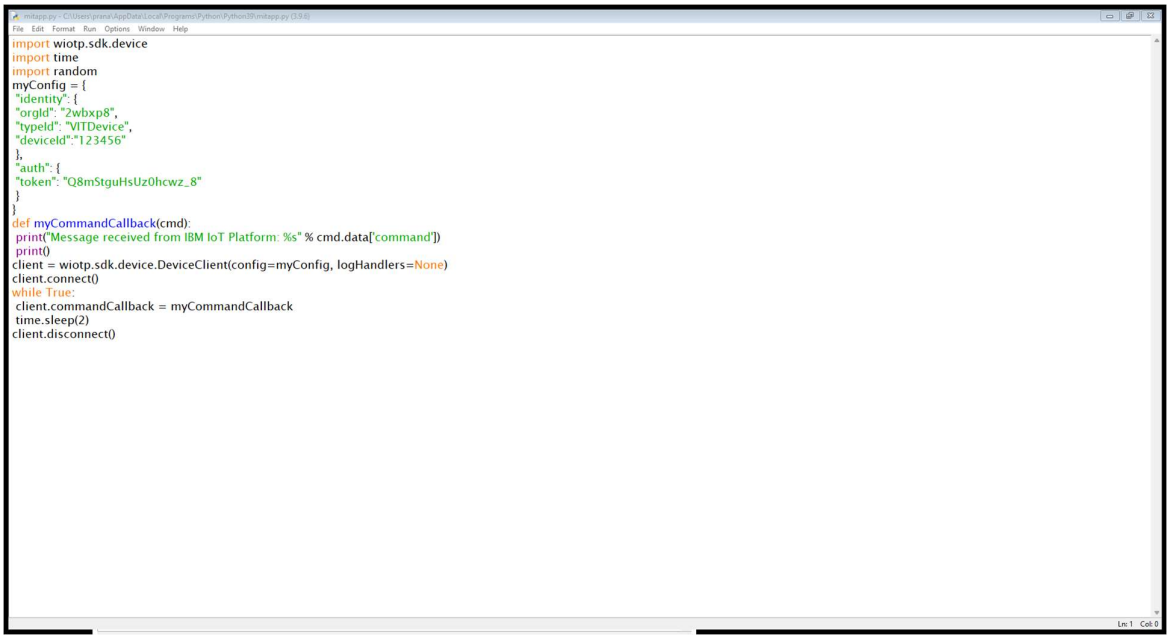


Blocks:



Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
 "identity": {
 "orgId": "2wbxp8",
 "typeId": "VITDevice",
 "deviceId":"123456"
 },
 "auth": {
 "token": "Q8mStguHsUz0hcwz_8"
 }
}
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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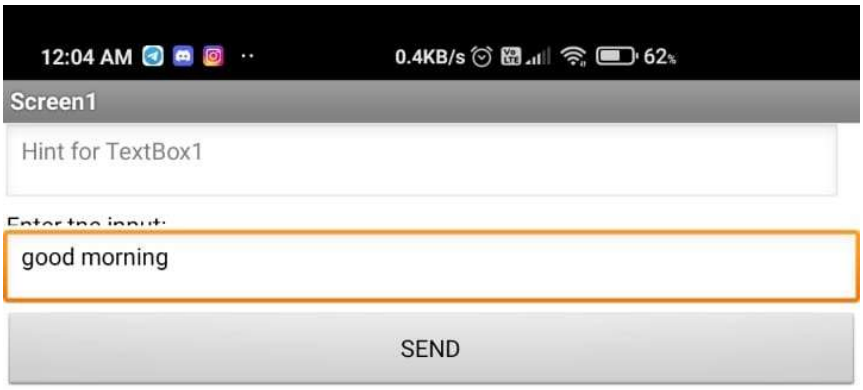
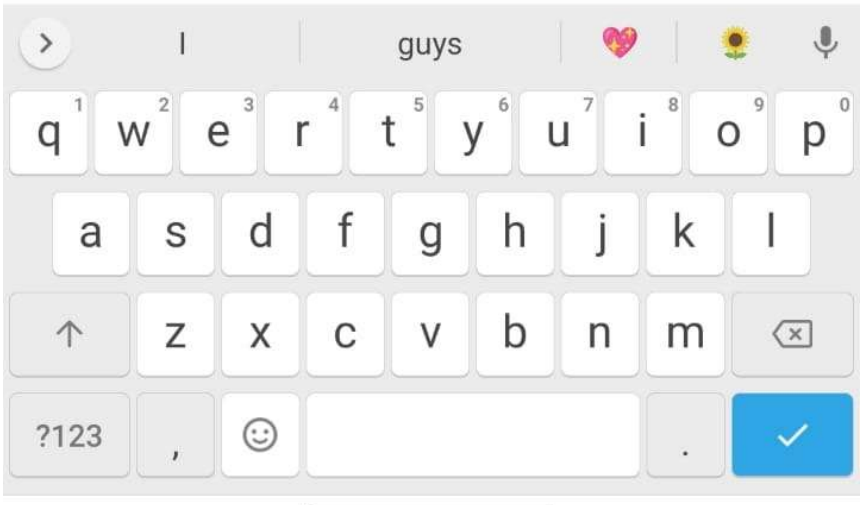
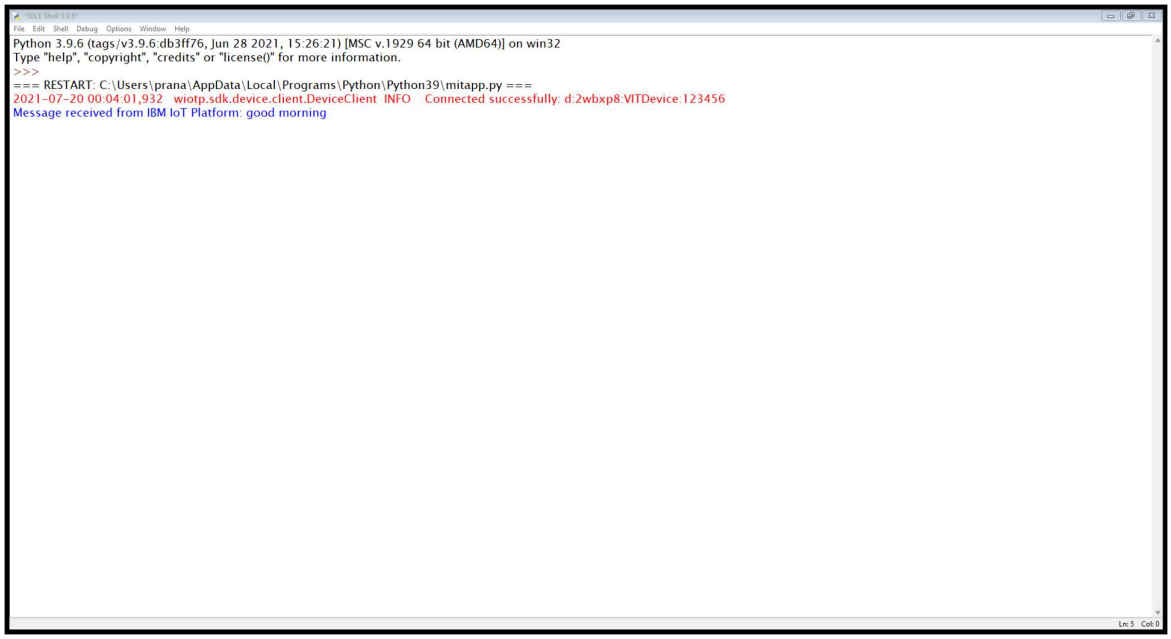
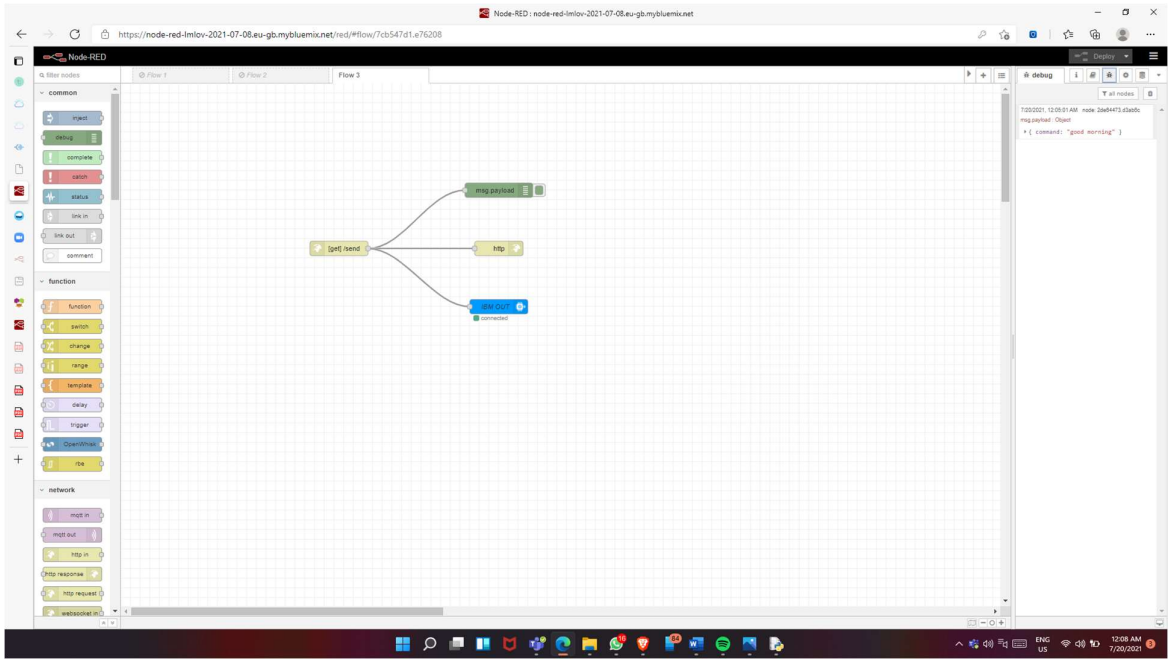
After execution:


12:04 AM
0.4KB/s
62%
Screen1
Hint for TextBox1
good morning
SEND


I
guys
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123
,
.


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\prana\AppData\Local\Programs\Python\Python39\mitapp.py ===
2021-07-20 00:04:01,932 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:2wbxp8:VITDevice:123456
Message received from IBM IoT Platform: good morning
Ln: 5 Col: 0


Node-RED : node-red-lmlov-2021-07-08.eu-gb.mybluemix.net
https://node-red-lmlov-2021-07-08.eu-gb.mybluemix.net/red/#flow/7cb547d1.e76208
Node-RED
Deploy
Flow 1
Flow 2
Flow 3
debug
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
template
delay
trigger
OpenWhisk
rbe
network
mqtt in
mqtt out
http in
http response
http request
websocket in
msg.payload
[get] /send
http
IBM OUT
connected
msg.payload : Object
{ command: "good morning" }
ENG
US
12:08 AM
7/20/2021