Assignment 4

Name: Kripa Karthik

Registration number: 19BEC0549

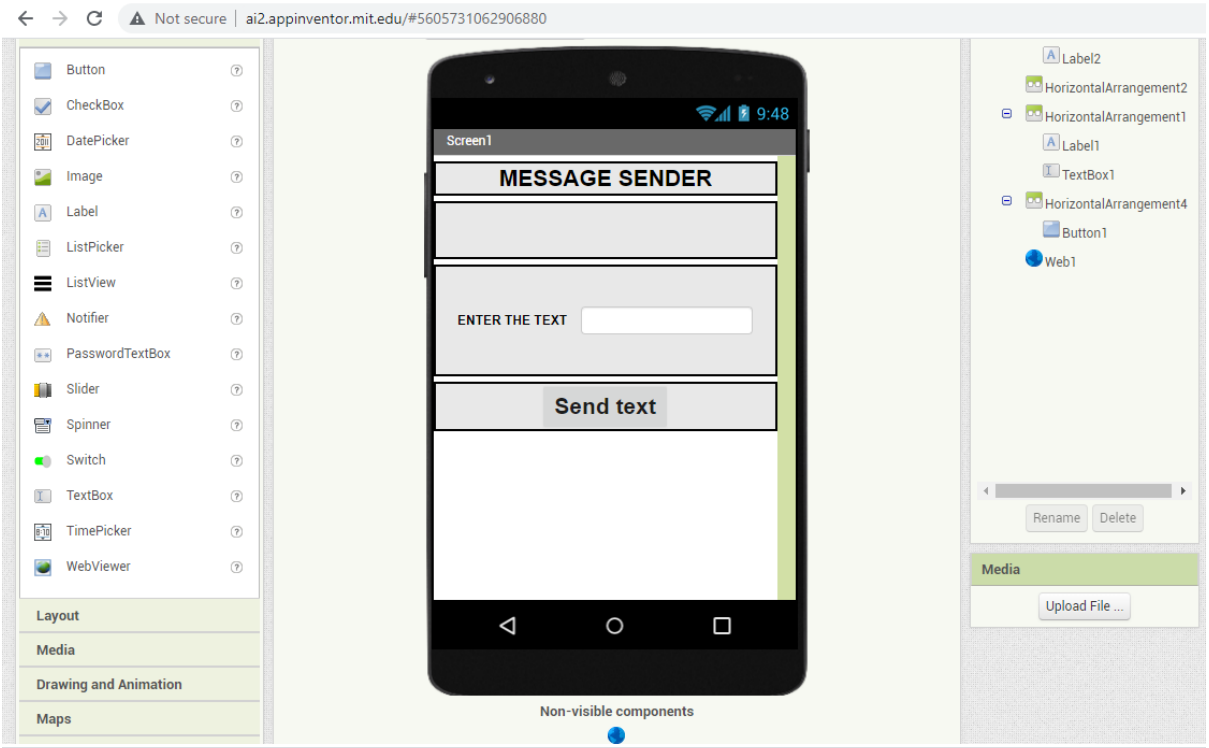
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell. Keep a text box to accept the user input. Integrate a submit button. Whenever user enters the text input in text box and clicks the button the data should be sent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

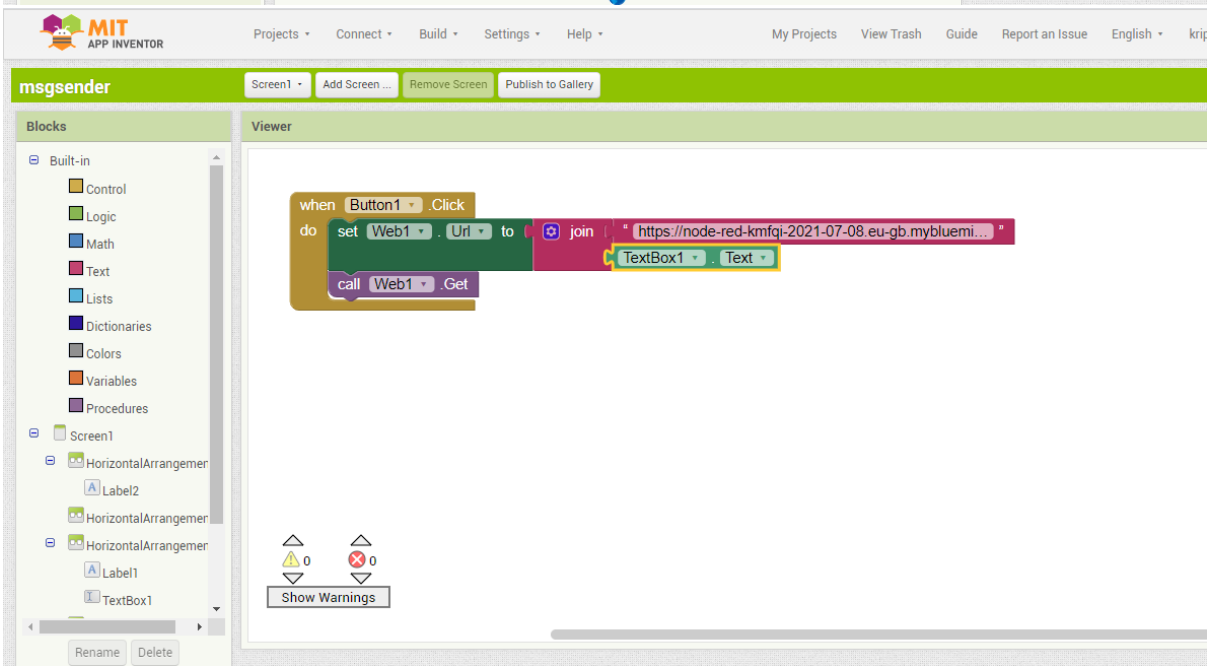
Python code

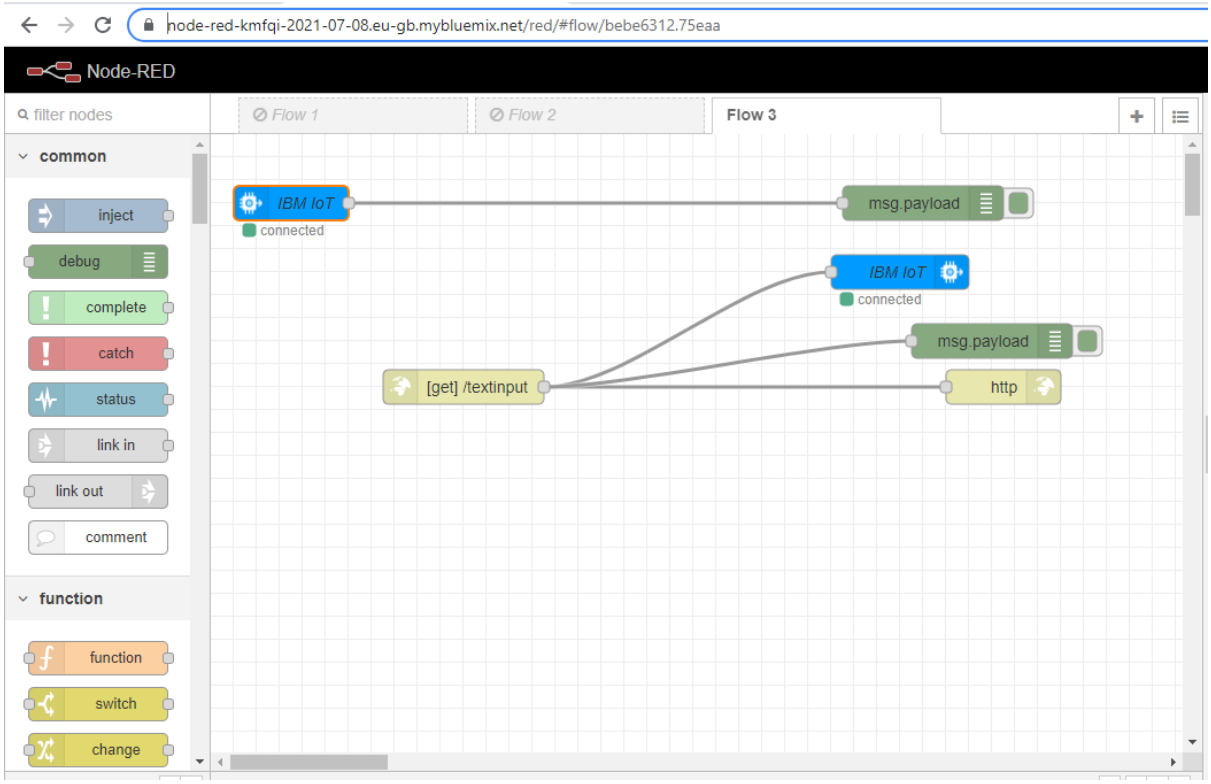
```
import wiotp.sdk.device
import time
import random
myConfig = {
 "identity": {
 "orgId": "cp3p3y",
 "typeId": "firstdevice",
 "deviceId":"kris123"
 },
 "auth": {
 "token": "12345678"
 }
}
def myCommandCallback(cmd):
 print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
```

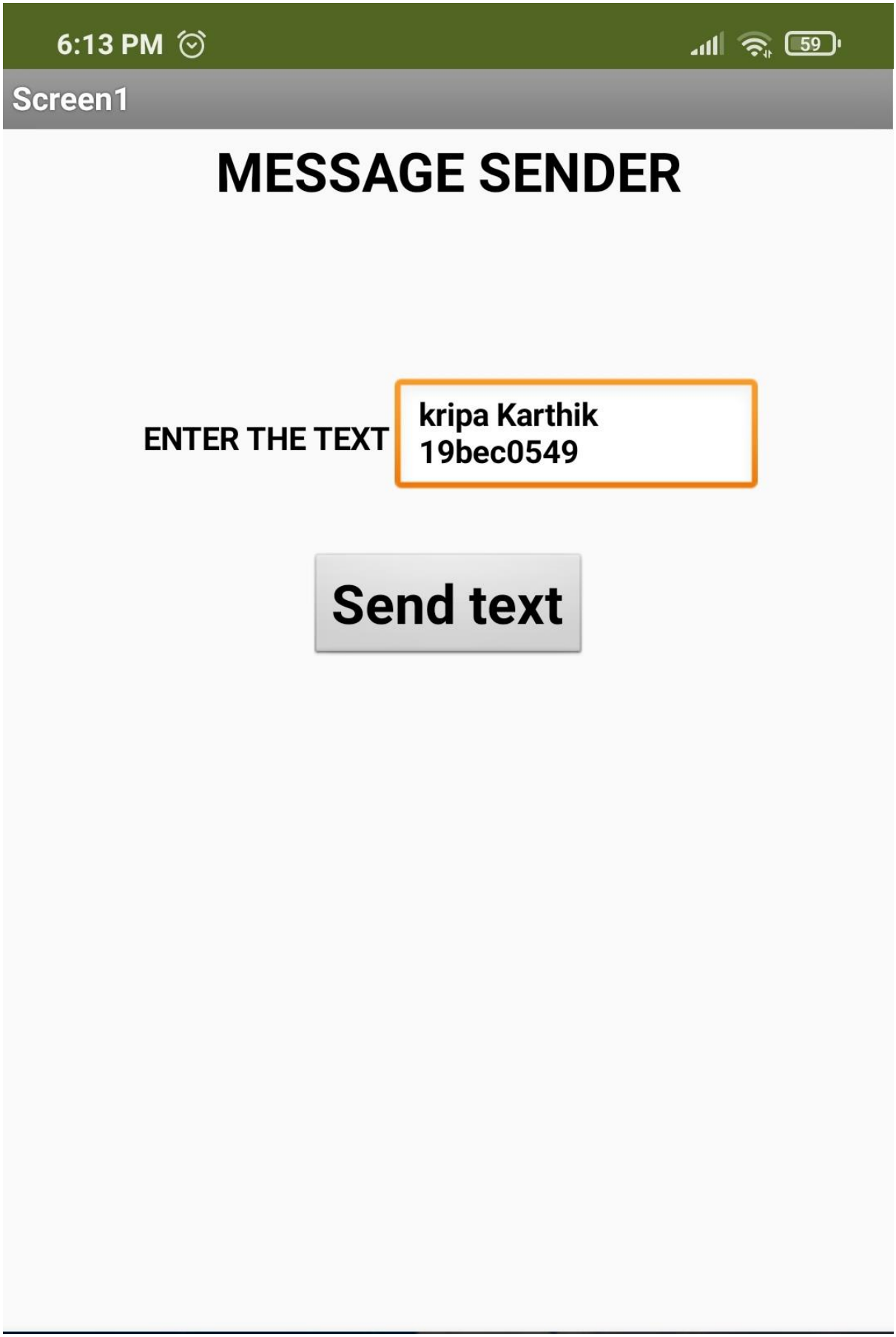
```
 #m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
 client.commandCallback = myCommandCallback
 time.sleep(2)
client.disconnect()
```

SCREENSHOTS


Not secure | ai2.appinventor.mit.edu/#5605731062906880
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Layout
Media
Drawing and Animation
Maps
9:48
Screen1
MESSAGE SENDER
ENTER THE TEXT
Send text
Non-visible components
Label2
HorizontalArrangement2
HorizontalArrangement1
Label1
TextBox1
HorizontalArrangement4
Button1
Web1
Rename
Delete
Media
Upload File ...


MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
msgsender
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Blocks
Viewer
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangemer
Label2
HorizontalArrangemer
HorizontalArrangemer
Label1
TextBox1
Rename
Delete
when Button1 .Click
do set Web1 . Url to join " https://node-red-kmfqi-2021-07-08.eu-gb.mybluemi... "
TextBox1 . Text
call Web1 .Get
0
0
Show Warnings


node-red-kmfqi-2021-07-08.eu-gb.mybluemix.net/red/#flow/bebe6312.75eaa
Node-RED
filter nodes
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
Flow 1
Flow 2
Flow 3
IBM IoT
connected
msg.payload
IBM IoT
connected
msg.payload
[get] /textinput
http


6:13 PM
59
Screen1
MESSAGE SENDER
ENTER THE TEXT
kripa Karthik
19bec0549
Send text

6:13 PM
59
Screen1
MESSAGE SENDER
ENTER THE TEXT
its successful
Send text

assignment4.py - C:/Users/Lenovo/Desktop/python programs IOT/assignment4.py (3.9.6)

File Edit Format Run Options Window Help

```
import wiotp.sdk.device
import time
import random
myConfig = {
 "identity": {
 "orgId": "cp3p3y",
 "typeId": "firstdevice",
 "deviceId":"kris123"
 },
 "auth": {
 "token": "12345678"
 }
}
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()
```

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/Lenovo/Desktop/python programs IOT/assignment4.py =====
2021-07-19 18:12:18,513   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:cp3p3y:firstdevice:kris123
Message received from IBM IoT Platform: kripa Karthik 19bec0549
Message received from IBM IoT Platform: kripa Karthik 19bec0549
Message received from IBM IoT Platform: its successful
Message received from IBM IoT Platform: kripa Karthik 19bec0549
```