Assignment 4

(Keerti Srivastava)

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).

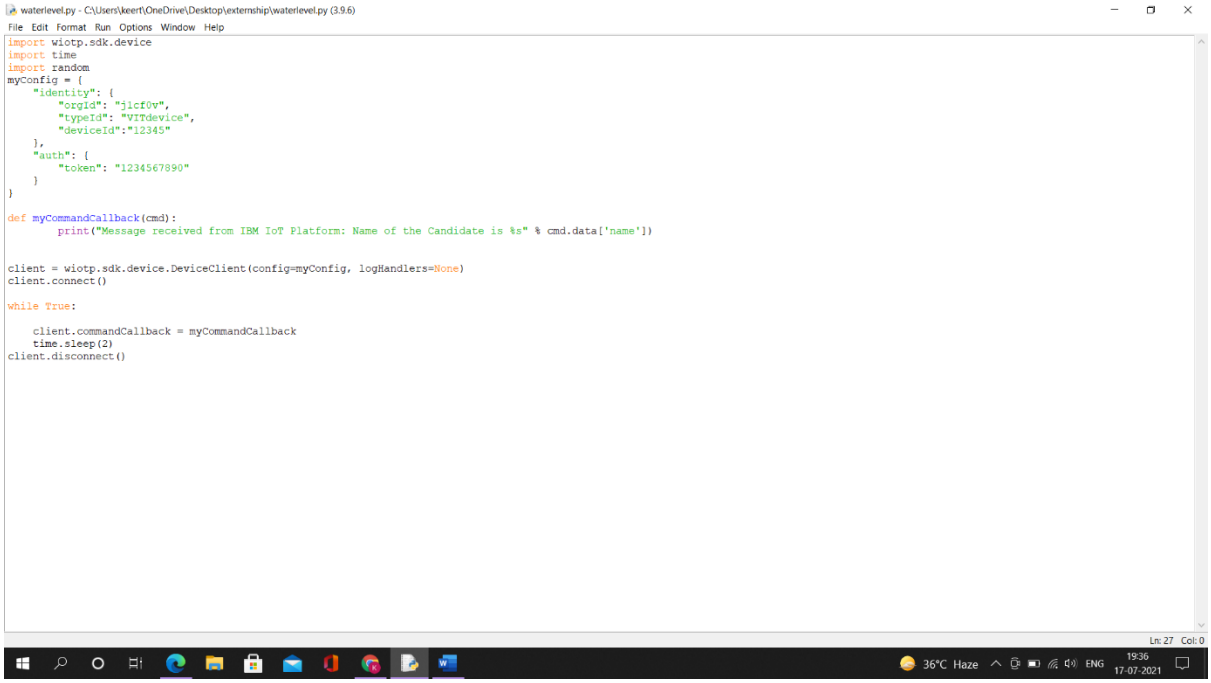
Code:

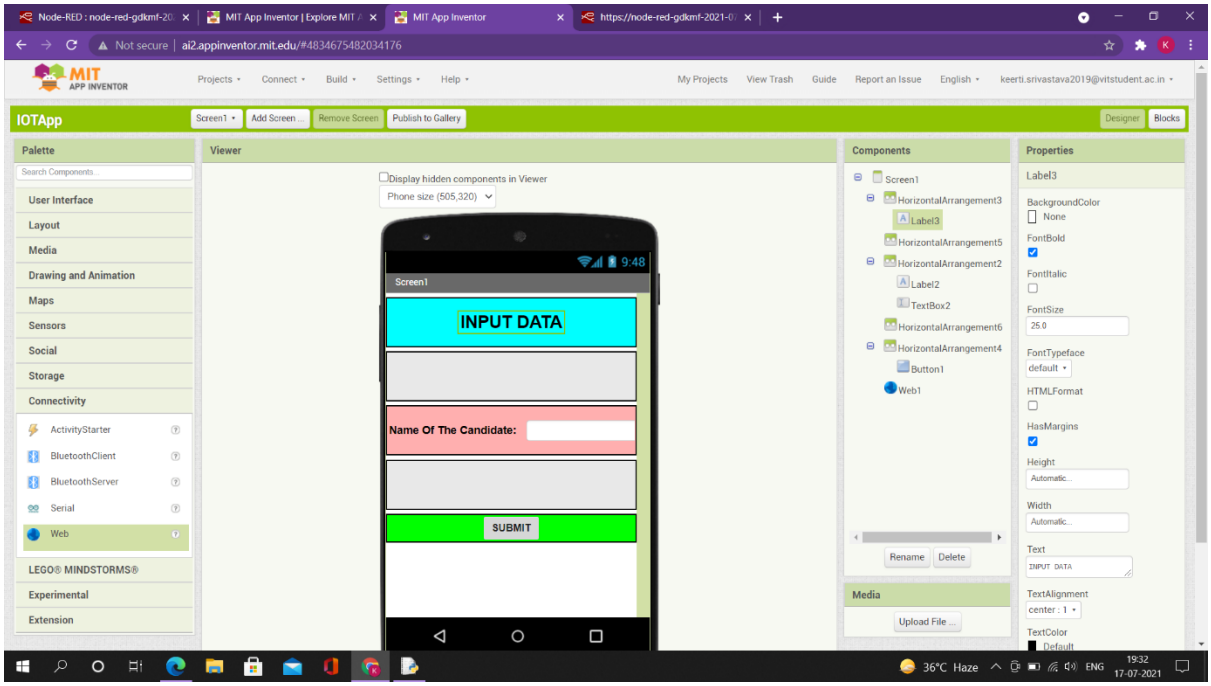
```
import wiotp.sdk.device

import time

import random

myConfig = {

   "identity": {

      "orgId": "j1cf0v",

      "typeId": "VITdevice",

      "deviceId":"12345"

   },

   "auth": {

      "token": "1234567890"

   }

}


def myCommandCallback(cmd):

      print("Message received from IBM IoT Platform: Name of the Candidate is %s" %
cmd.data['name'])




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

client.connect()


while True:
```

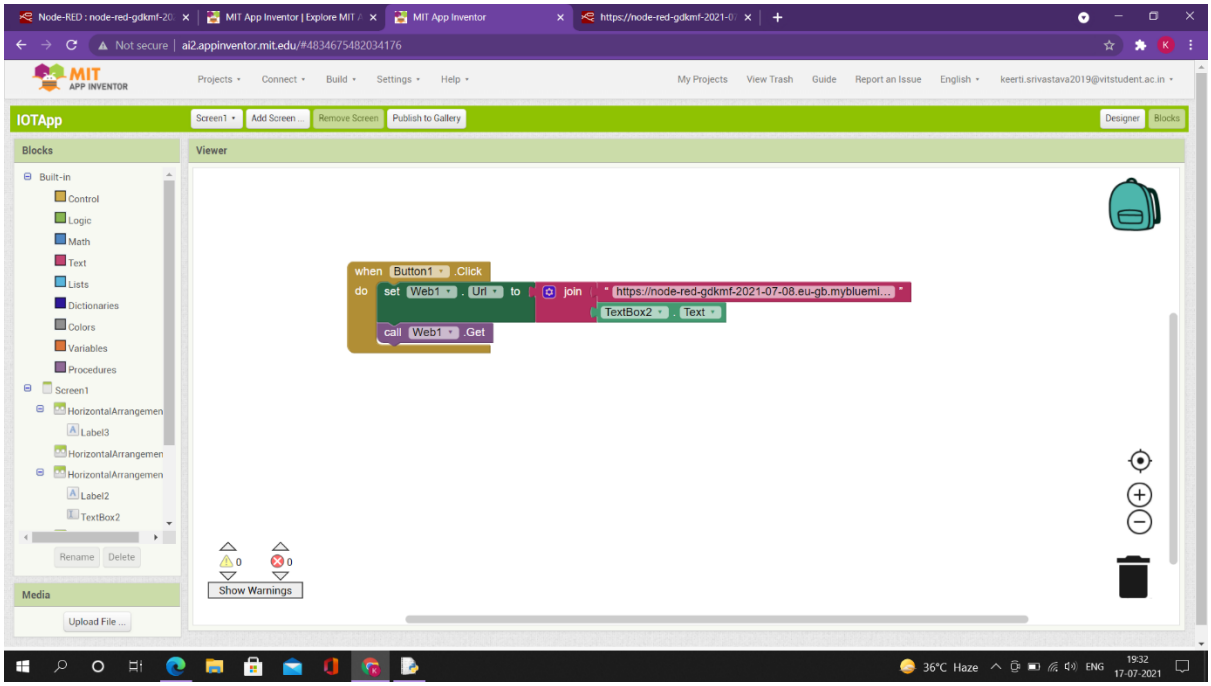
client.commandCallback = myCommandCallback

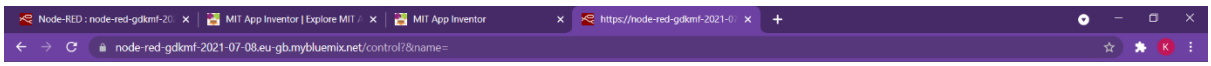
time.sleep(2)

client.disconnect()






Node-RED : node-red-gdkmf-20
MIT App Inventor | Explore MIT
MIT App Inventor
https://node-red-gdkmf-2021-0
Not secure | ai2.appinventor.mit.edu/#4834675482034176
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
keerti.srivastava2019@vitstudent.ac.in
IOTApp
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangemen
Label3
HorizontalArrangemen
HorizontalArrangemen
Label2
TextBox2
Rename
Delete
Media
Upload File ...
Viewer
when Button1 .Click
do set Web1 . Url to join "https://node-red-gdkmf-2021-07-08.eu-gb.mybluemi...
TextBox2 . Text
call Web1 .Get
0
0
Show Warnings
36°C Haze
ENG
19:32
17-07-2021


Node-RED : node-red-gdkmf-20
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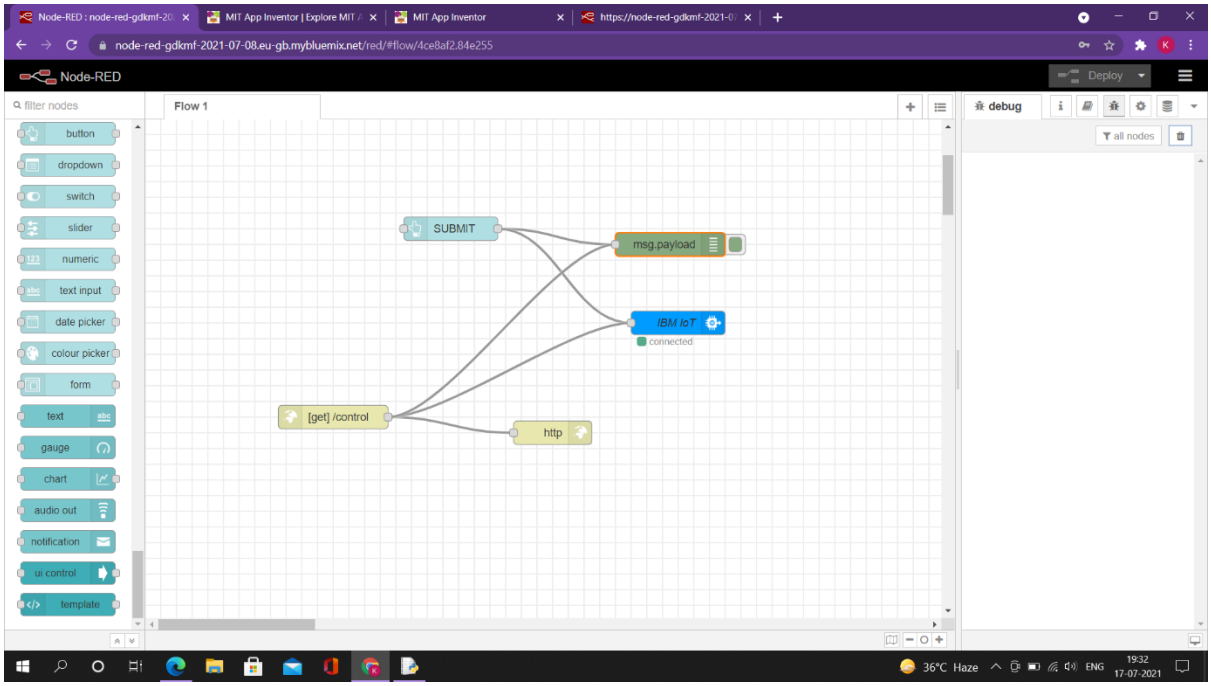
MIT App Inventor
https://node-red-gdkmf-2021-0
node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/control?&name=

{"name":""}


36°C Haze
ENG
19:32
17-07-2021


Node-RED : node-red-gdkmf-20
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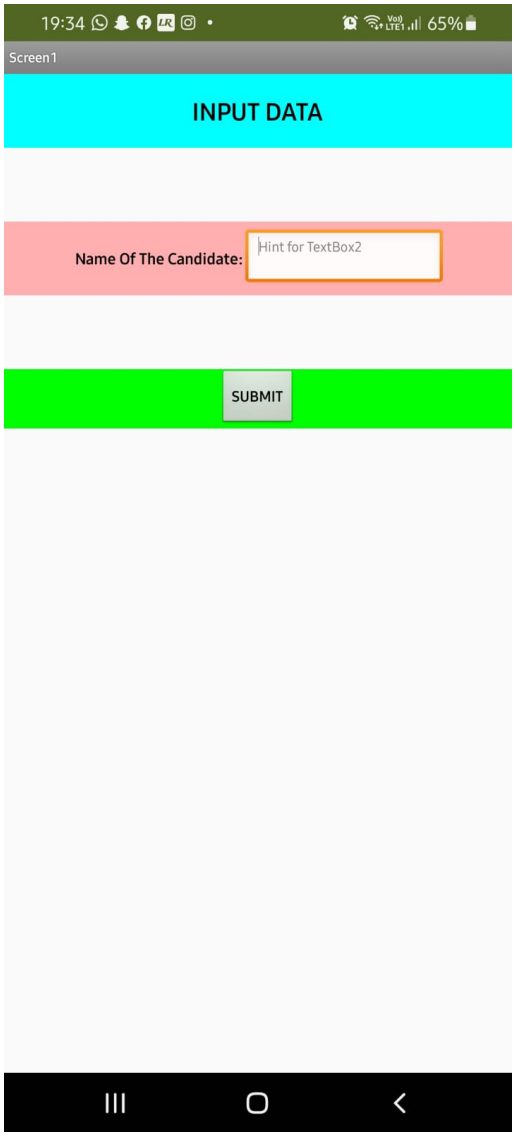
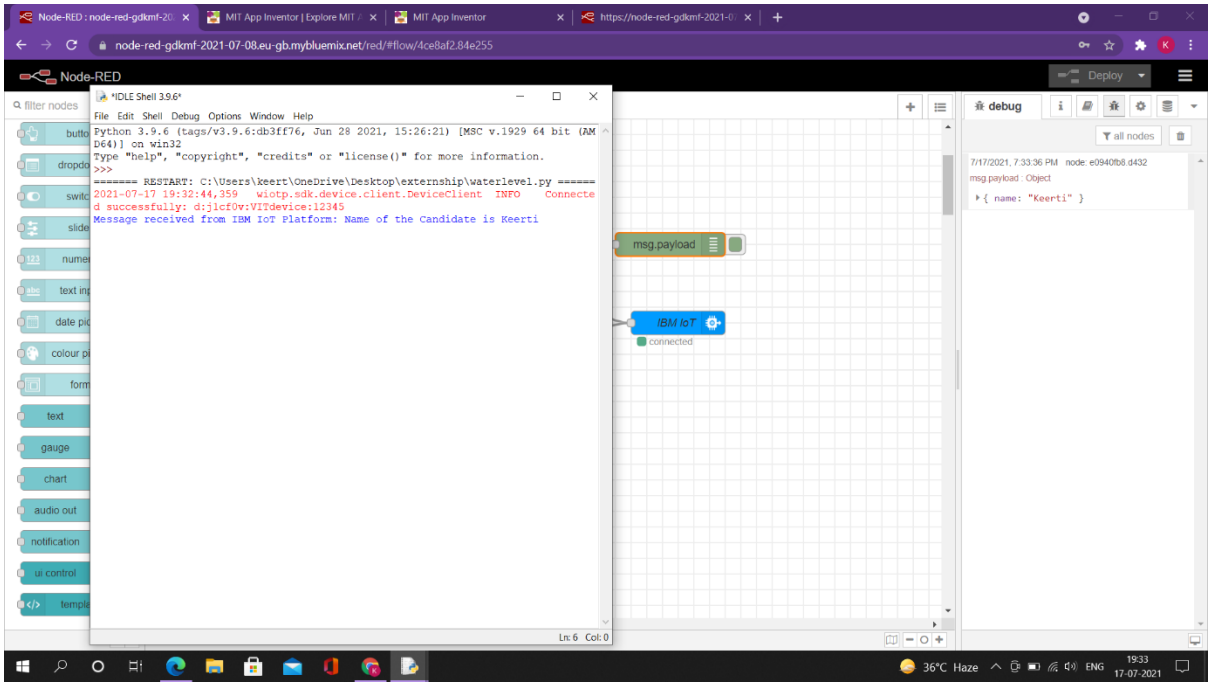
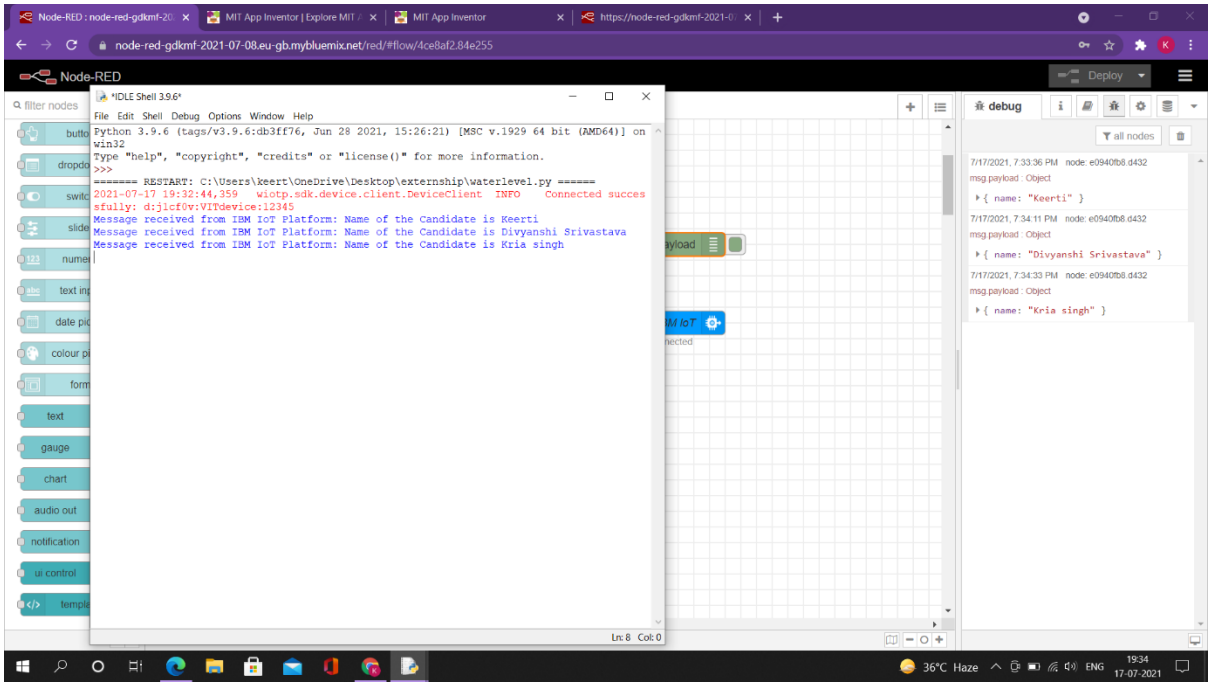
https://node-red-gdkmf-2021-0
node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/red/#flow/4ce8af2.84e255
Node-RED
Deploy
filter nodes
Flow 1
debug
all nodes
button
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
audio out
notification
ui control
template
SUBMIT
msg.payload
IBM IoT
connected
[get] /control
http
36°C Haze
ENG
19:32
17-07-2021

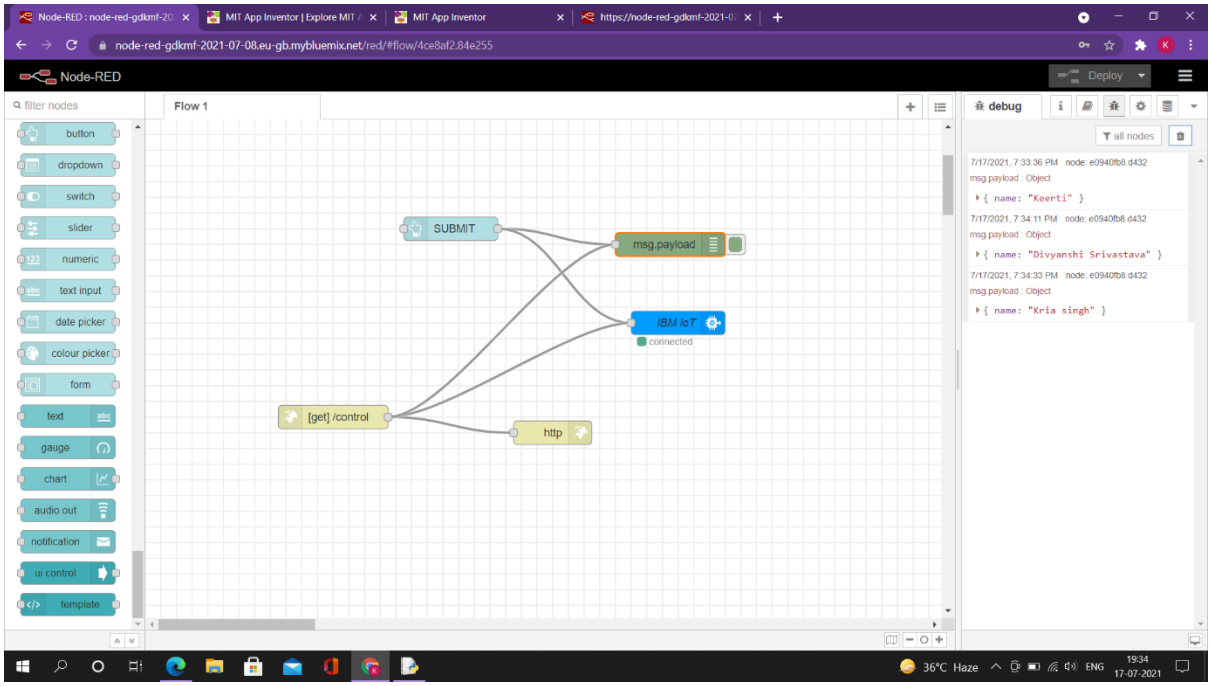

19:34
65%
Screen1
INPUT DATA
Name Of The Candidate:
Hint for TextBox2
SUBMIT


Node-RED
node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/red/#flow/4ce8af2.84e255
Deploy
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 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\keert\OneDrive\Desktop\externship\waterlevel.py ======
2021-07-17 19:32:44,359 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:jlcf0v:VITdevice:12345
Message received from IBM IoT Platform: Name of the Candidate is Keerti
Ln: 6 Col: 0
debug
msg.payload
IBM IoT
connected
7/17/2021, 7:33:36 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Keerti" }
36°C Haze
ENG
19:33
17-07-2021


19:33
65%
Screen1
INPUT DATA
Name Of The Candidate:
Keerti
SUBMIT
Srivastava
and
this
English (US)
Done


Node-RED
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 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======= RESTART: C:\Users\keert\OneDrive\Desktop\externship\waterlevel.py ======
2021-07-17 19:32:44,359 wiotp.sdk.device.client.DeviceClient INFO Connected succesfully: d:jlcf0v:VITdevice:12345
Message received from IBM IoT Platform: Name of the Candidate is Keerti
Message received from IBM IoT Platform: Name of the Candidate is Divyanshi Srivastava
Message received from IBM IoT Platform: Name of the Candidate is Kria singh
debug
7/17/2021, 7:33:36 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Keerti" }
7/17/2021, 7:34:11 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Divyanshi Srivastava" }
7/17/2021, 7:34:33 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Kria singh" }


Screen1
INPUT DATA
Name Of The Candidate:
Kria singh
SUBMIT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MIT App Inventor
https://node-red-gdkmf-2021-0
node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/red/#flow/4ce8af2.84e255
Node-RED
Deploy
filter nodes
Flow 1
button
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
audio out
notification
ui control
template
SUBMIT
msg.payload
IBM IoT
connected
[get] /control
http
debug
all nodes
7/17/2021, 7:33:36 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Keerti" }
7/17/2021, 7:34:11 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Divyanshi Srivastava" }
7/17/2021, 7:34:33 PM node: e0940fb8.d432
msg.payload : Object
{ name: "Kria singh" }
36°C Haze
ENG
19:34
17-07-2021