ASSIGNMENT 4

Name- Pratul Maurya

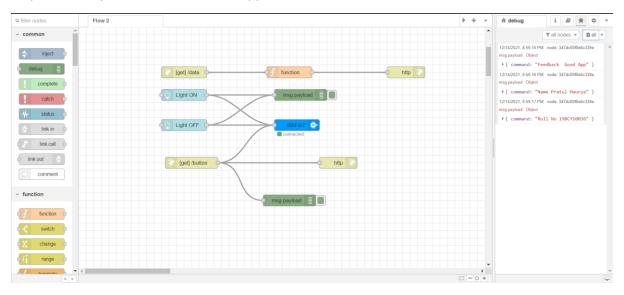
Reg. No- 19BCY10036

Question - Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.

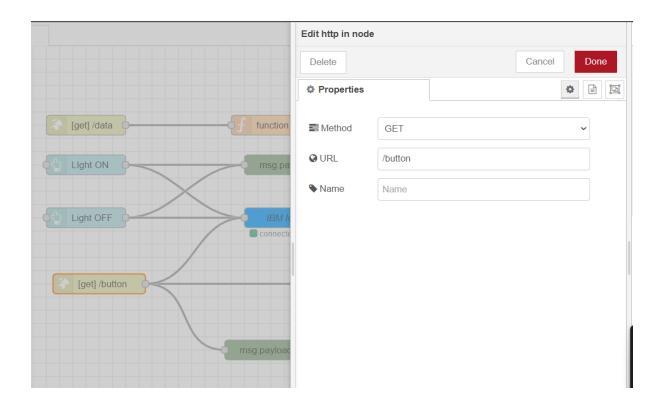
Keep a text box to accept the user input.integrate a submit button. Whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL (HTTP API).

Solution: -

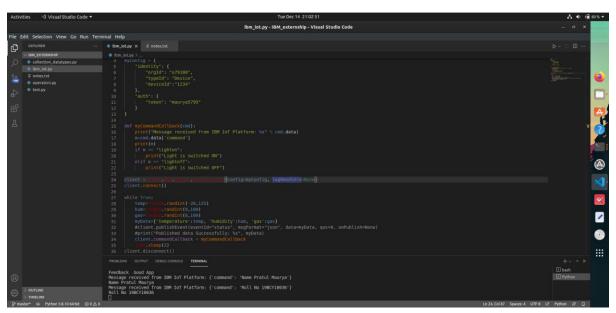
Step 1- Create your flow on Node-Red app and connect IBM IoT to it.



Step 2- Create HTTP get node and configure it to send data.



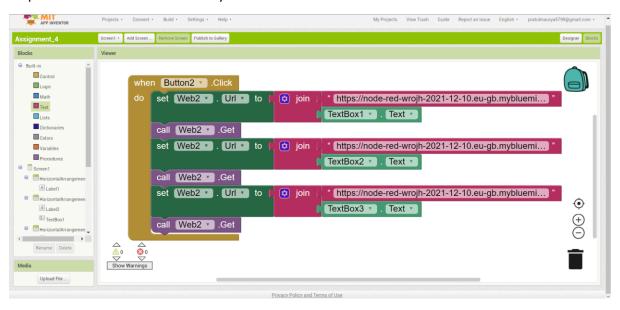
Step 3- Edit the python program with your device details along with the Auth Token. Execute the program to send data to the IBM Cloud.



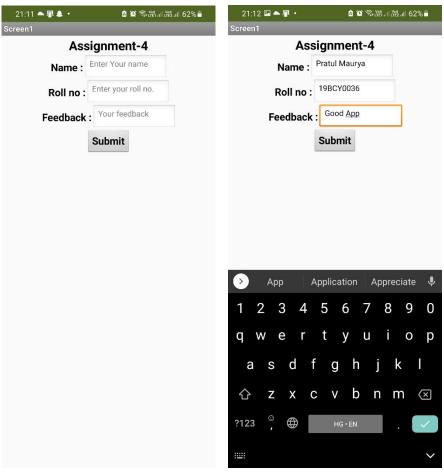
Step 4- Now in MIT app inventor adds the labels and text boxes in designer view and format them according to you.



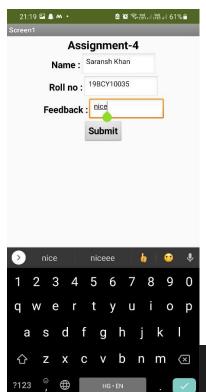
Step 5- Then in the blocks view set your condition to send data to the IBM cloud.



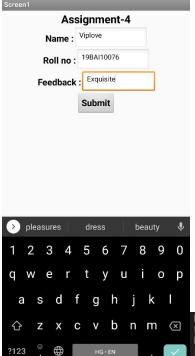
Working Screenshots-



```
zeroday@zeroday-PM:~/IBM_externship$ /bin/python3 /home/zeroday/IBM_externship/ibm_iot.py
2021-12-14 21:14:06,931 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:o79180:Device:1234
Message received from IBM IoT Platform: {'command': 'Roll No 19BCY0036'}
Roll No 19BCY0036
Message received from IBM IoT Platform: {'command': 'Feedback Good App'}
Feedback Good App
Message received from IBM IoT Platform: {'command': 'Name Pratul Maurya'}
Name Pratul Maurya
```



Message received from IBM IoT Platform: {'command': 'Name Saransh Khan'} Name Saransh Khan Message received from IBM IoT Platform: {'command': 'Roll No 19BCY0035'} Roll No 19BCY0035 Message received from IBM IoT Platform: {'command': 'Feedback nice'} Feedback nice



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Message received from IBM IoT Platform: {'command': 'Roll No 19BAI10076'}
Roll No 19BAI10076
Message received from IBM IoT Platform: {'command': 'Feedback Exquisite'}
Feedback Exquisite
Message received from IBM IoT Platform: {'command': 'Name Viplove'}
Name Viplove
```