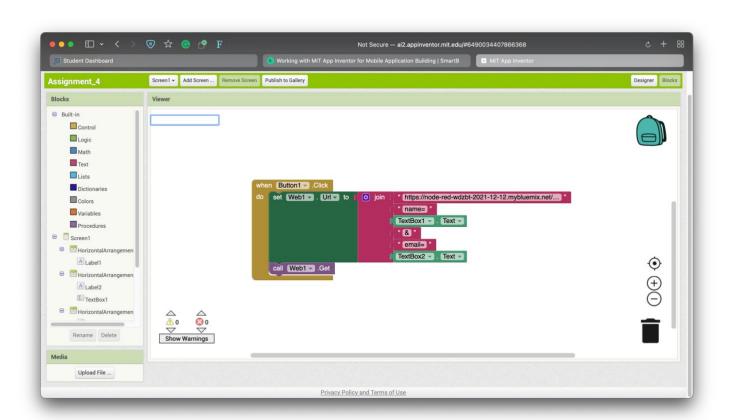
Assignment – 4

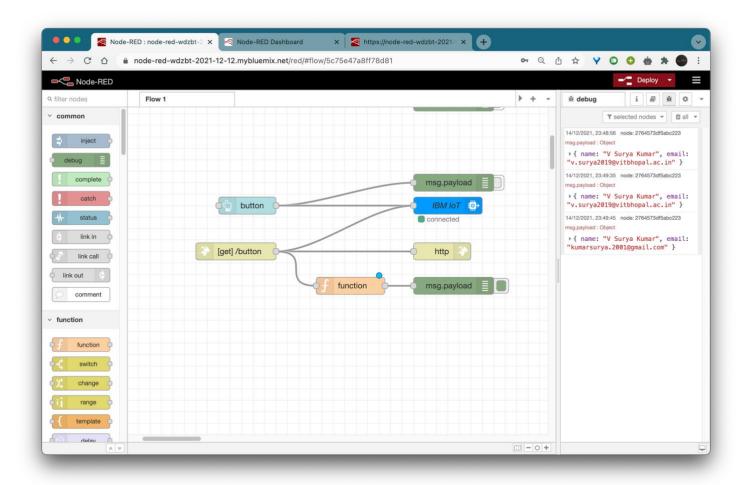
Name : V Surya Kumar Reg. No. : 19BCE10286

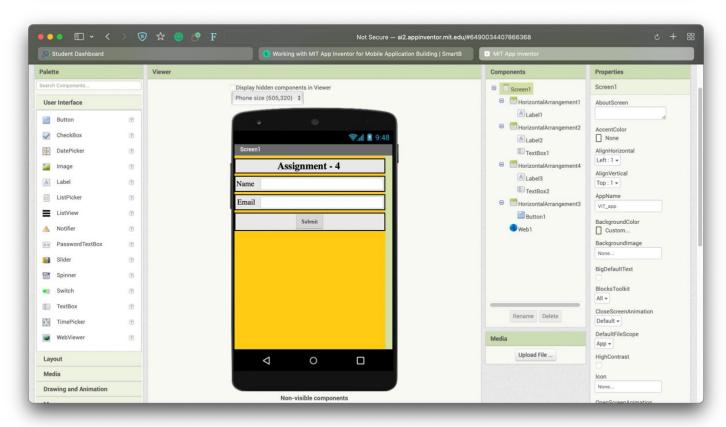
Application ID: SPS_APL_20210013738

Q. 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).

Circuit Diagram:







Code Output:

Code:

```
IOT.py - /Users/vsuryakumar/CodeBase/CompetitiveProgramming/Practice_random/IOT....
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
    "orgId": "qb2r0a",
    "typeId": "device",
    "deviceId":"12345"
    },
"auth": {
         "token": "wehdo6-tubhuq-gUxgih"
}
def myCommandCallback(cmd):
    print("Name received from IBM IoT Platform: %s" % cmd.data['name'])
    print("Email received from IBM IoT Platform: %s" % cmd.data['email'])
     m=cmd.data['name']
    print()
     if m == 'lighton':
     print("Light is ON")
elif m == "lightoff":
          print("Light is OFF")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, # print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
     time.sleep(2)
client.disconnect()
                                                                                Ln: 24 Col: 30
```

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
     "orgId": "qb2r0a",
     "typeId": "device",
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client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  myData={'temperature':temp, 'humidity':hum}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=N
  # print("Published data Successfully: %s", myData)
  client.commandCallback = myCommandCallback
  time.sleep(2)
client.disconnect()
```