Assignment 4

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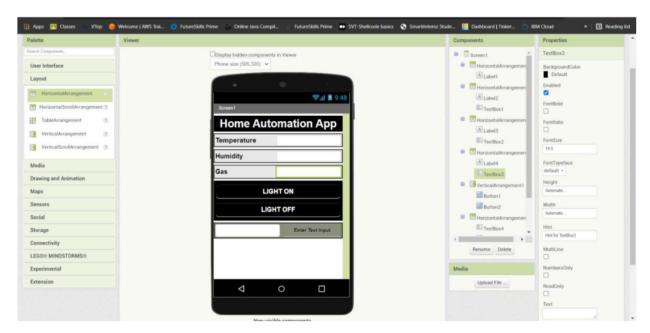
Develop a mobile application that takes the user input and sends it to an IoT device (python code). print the received data in python shell. Keep a text box to accept the user input. Integrate a submit button. Whenever a user enters the text input in the text box and clicks the button the data should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

Python code:

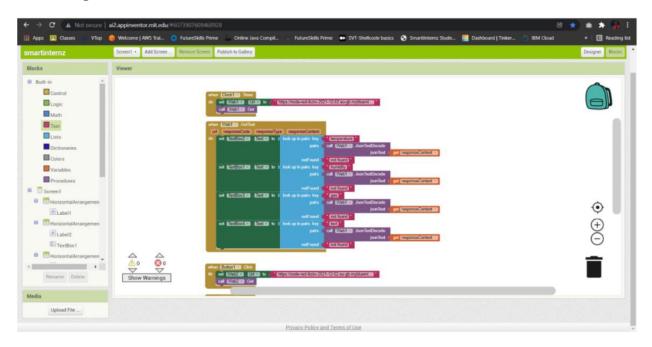
```
File Edit Shell Debug Options Window Help
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit *(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Window Help
                                                                                                                                                                                                                                                                                                                                                     import wiotp.sdk.device
import time
import random
                                                                                                                                                                                                                                                                                                                                                          = RESTART: C:/Users/Rishabh Maheshwari/OneDrive/Desktop/Prog_for_IoT/Assignme
 m to the total transfer of the transfer of tra
                                                                                                                                                                                                                                                                                                                                                                  },
"auth": {
    "token": "12345678"
   Published data Successfully: %s {'temperature': 20, 'humidity': 73, 'gas': 71, 'text': 'First Text'}
  , 'text': 'First Text')
Next is Empty
Published data Successfully: %s {'temperature': 27, 'humidity': 53, 'gas': 2, 'text': 'Next is Empty'}
                                                                                                                                                                                                                                                                                                                                                                   myCommandCallback(cmd):
print('Message received from IBM IoT Platform: %s" % cmd.data['commemd.data['commemd.data]'commemd.data['commemd.data]
   Published data Successfully: %s {'temperature': 41, 'humidity': 1, 'gas': 50, 'text': ''}
                                                                                                                                                                                                                                                                                                                                                                     print()
if m == "lighton":
                                                                                                                                                                                                                                                                                                                                                                  print("Light is Switched ON")
elif m == "lightoff":
   print("Light is Switched OFF")
print()
print(m)
                                                                                                                                                                                                                                                                                                                                                  client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                                                                                                                                                                                                                                                                                                 le True:

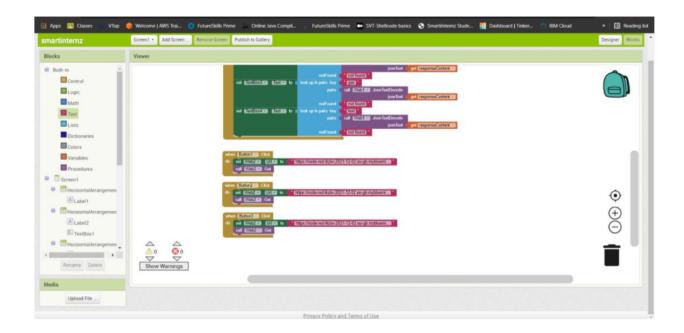
temp=random.randint(-20,125)
hum=random.randint(0,100)
gas=random.randint(0,100)
gas=random.randint(0,100)
text = input('')
myData=('temperature':temp, 'humidity':hum, 'gas':gas, 'text':text}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=
print("Published data Successfully:%s", myData)
client.commandCallback = myCommandCallback
*'cm_slaen(2)
                                                                                                                                                                                                                                                                                                                                                   time.sleep(2)
client.disconnect
```

MIT app inventor:

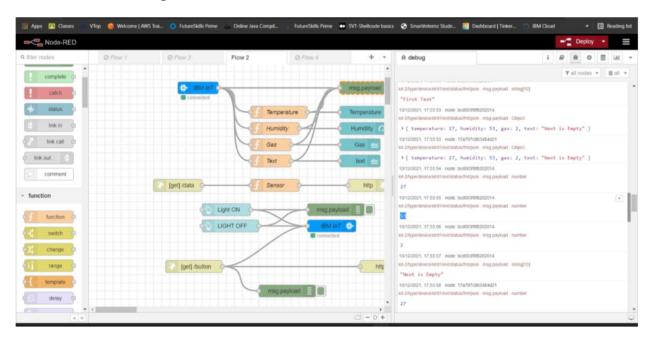


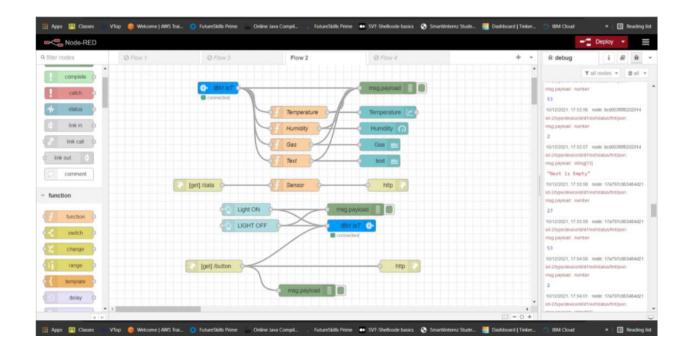
Block diagram:





Node-RED Flow Diagram:





Web page URL:

```
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{"Command":"First Text"}
```