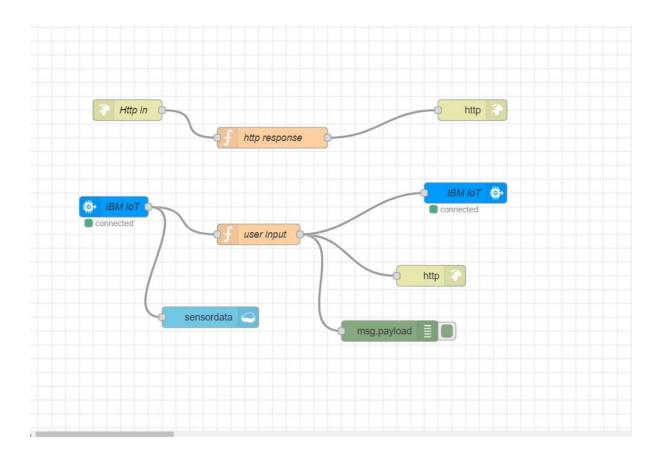
ASSIGNMENT-4

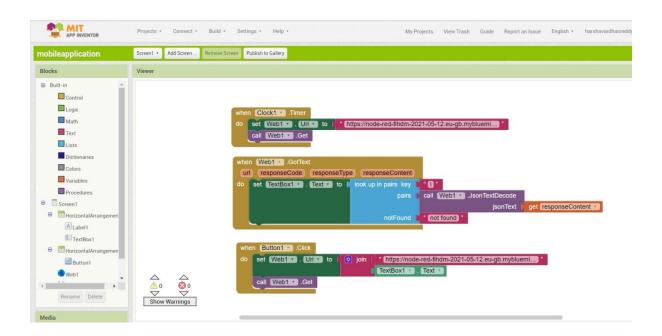
Code:

```
import ibmiotf.application
import ibmiotf.device
import random
import json
import time
#Provide your IBM Watson Device Credentials
organization = "hvqy0x"
deviceType = "iotdevice"
deviceId = "2001"
authMethod = "token"
authToken = "12345678910"
# Initialize the device client.
T=0
H=0
def myCommandCallback(cmd):
print("Command received: %s" % cmd.data['command'])
if cmd.data['command']=='lighton':
print("LIGHT ON IS RECEIVED")
elif cmd.data['command']=='lightoff':
print("LIGHT OFF IS RECEIVED")
```

```
if cmd.command == "setInterval":
if 'interval' not in cmd.data:
print("Error - command is missing required information: 'interval'")
else:
interval = cmd.data['interval']
elif cmd.command == "print":
if 'message' not in cmd.data:
print("Error - command is missing required information: 'message'")
else:
print(cmd.data['message'])
try:
deviceOptions = {"org": organization, "type": deviceType, "id":
deviceId, "auth-method":
authMethod, "auth-token": authToken}
deviceCli = ibmiotf.device.Client(deviceOptions)
#.....
except Exception as e:
print("Caught exception connecting device: %s" % str(e))
sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as
an event of type
"greeting" 10 times
deviceCli.connect()
while True:
T=23
H=45
```

```
#Send Temperature & Disconnect the device and application from the cloud deviceCli.disconnect()
```





```
### IDLE Shell 392*

File Edit Shell Debug Options Window Help

Fython 3.9.2 (tags/v3.9.2:la79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:/Users/admin/AppData/Local/Programs/Python/Python39/mobile app.py =

2021-05-25 17:11:25,368 immiotf.device.Client IMFO Connected successfully: d:frtx4v:iotdevice:1001

Published Temperature = 23 C Humidity = 45 % to IBM Watson

Published Temperature = 23 C Humidity = 45 % to IBM Watson

Published Temperature = 23 C Humidity = 45 % to IBM Watson

Published Temperature = 23 C Humidity = 45 % to IBM Watson

Published Temperature = 23 C Humidity = 45 % to IBM Watson

Command received: hiii

Published Temperature = 23 C Humidity = 45 % to IBM Watson
```