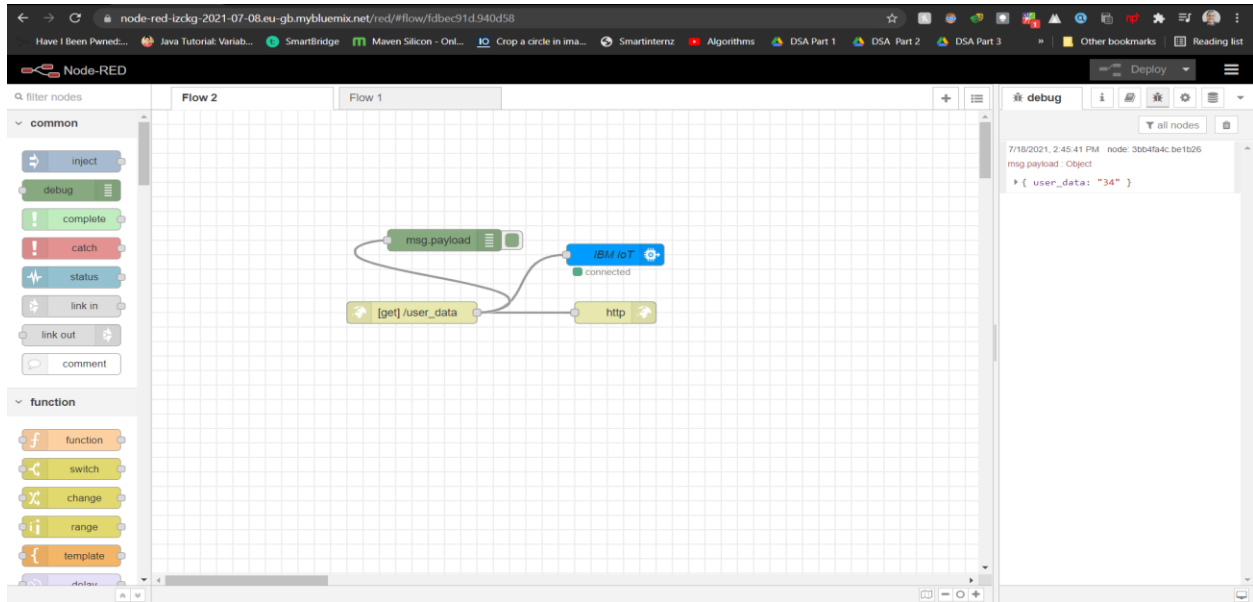
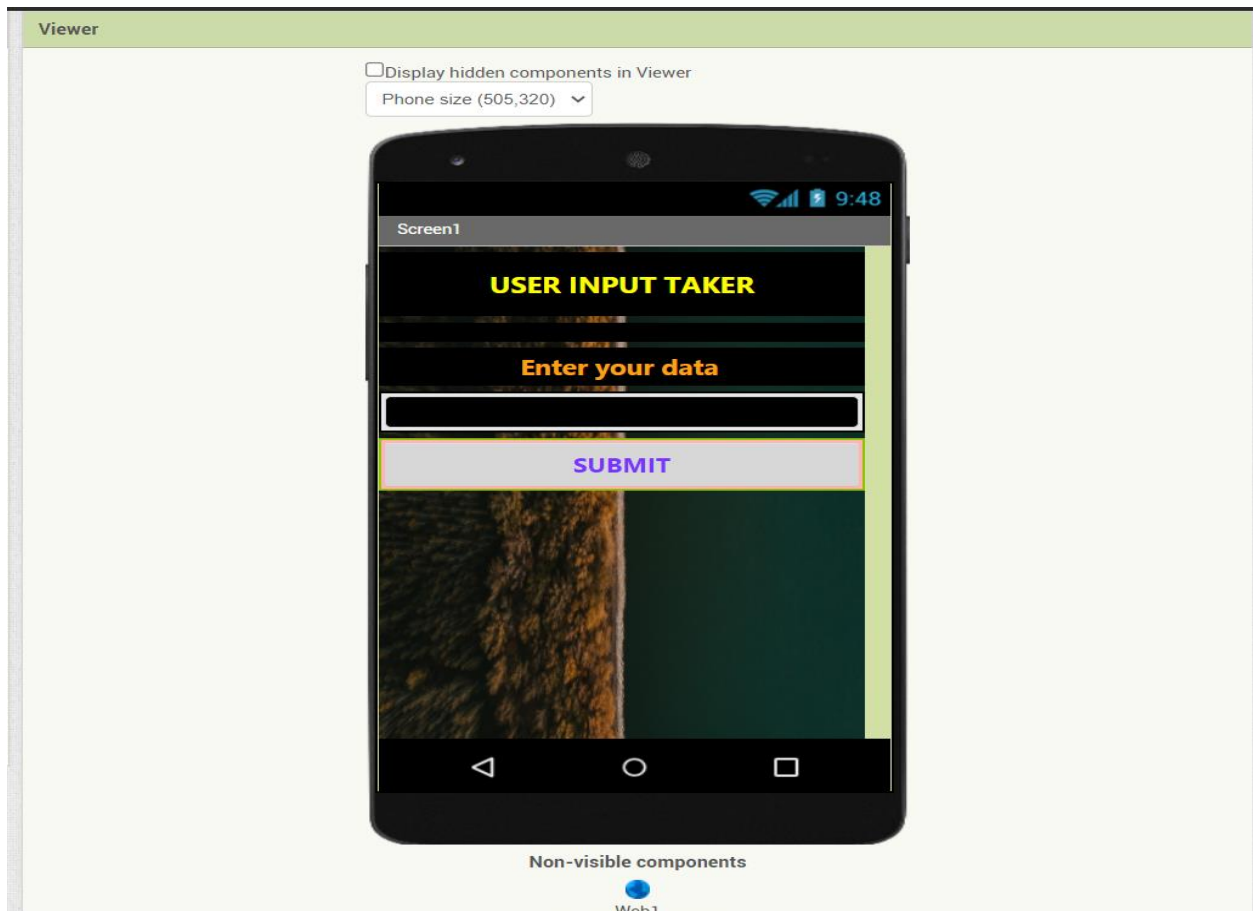


ASSIGNMENT 4: MOBILE APP DEVELOPMENT

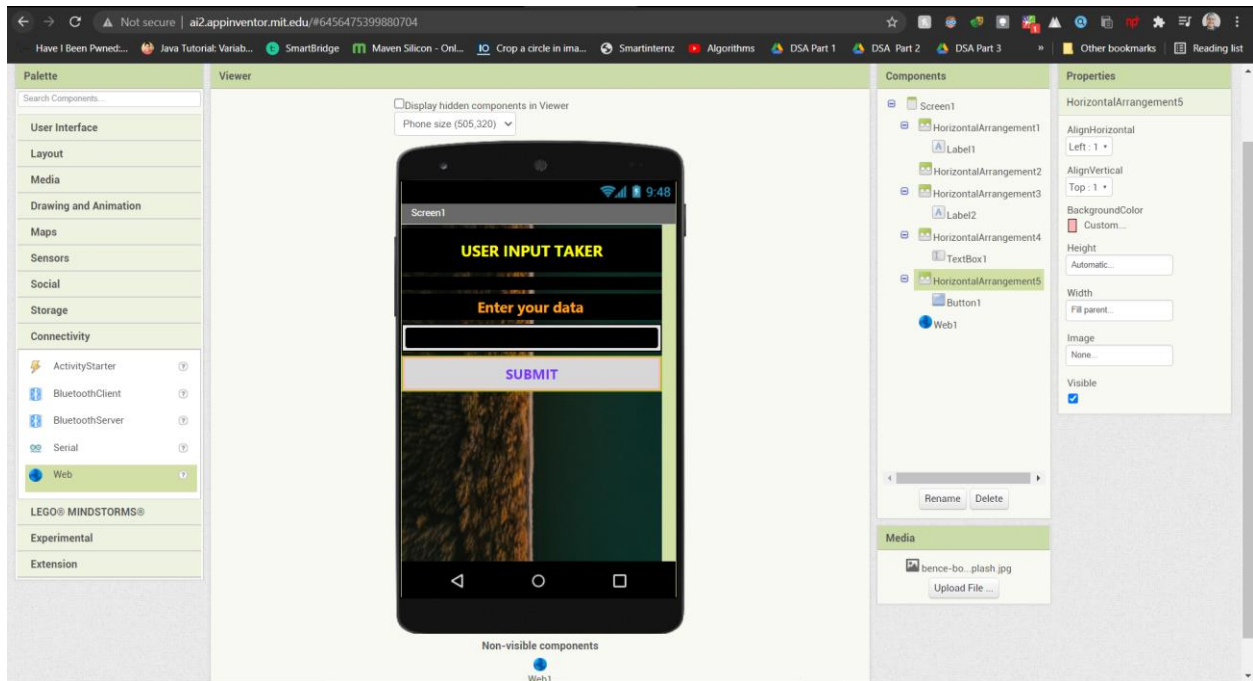
NODE RED FLOW FOR RECEIVING DATA FROM APP



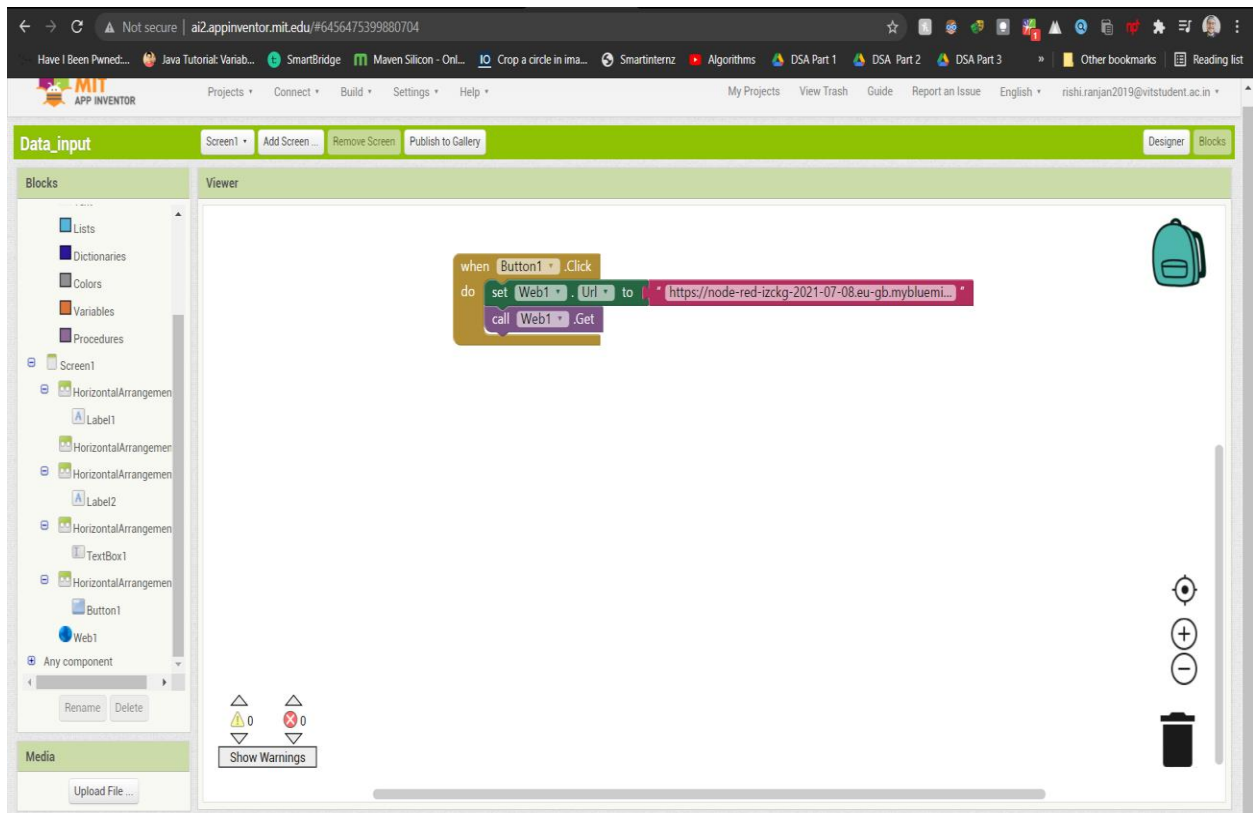
MY MOBILE APP DESIGN



ASSIGNMENT 4: MOBILE APP DEVELOPMENT



MY MOBILE APP BACKEND



ASSIGNMENT 4: MOBILE APP DEVELOPMENT

GETTING OUTPUT IN THE PYTHON SHELL (HERE VISUAL CODE IS USED)

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform
2021-07-18 15:01:59,193 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform
PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:03:06,619 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
Message received from IBM IoT Platform: 34
user_data : 34

PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform
2021-07-18 15:01:59,193 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform
PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:03:06,619 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
Message received from IBM IoT Platform: 34
user_data : 34

Message received from IBM IoT Platform: 46
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

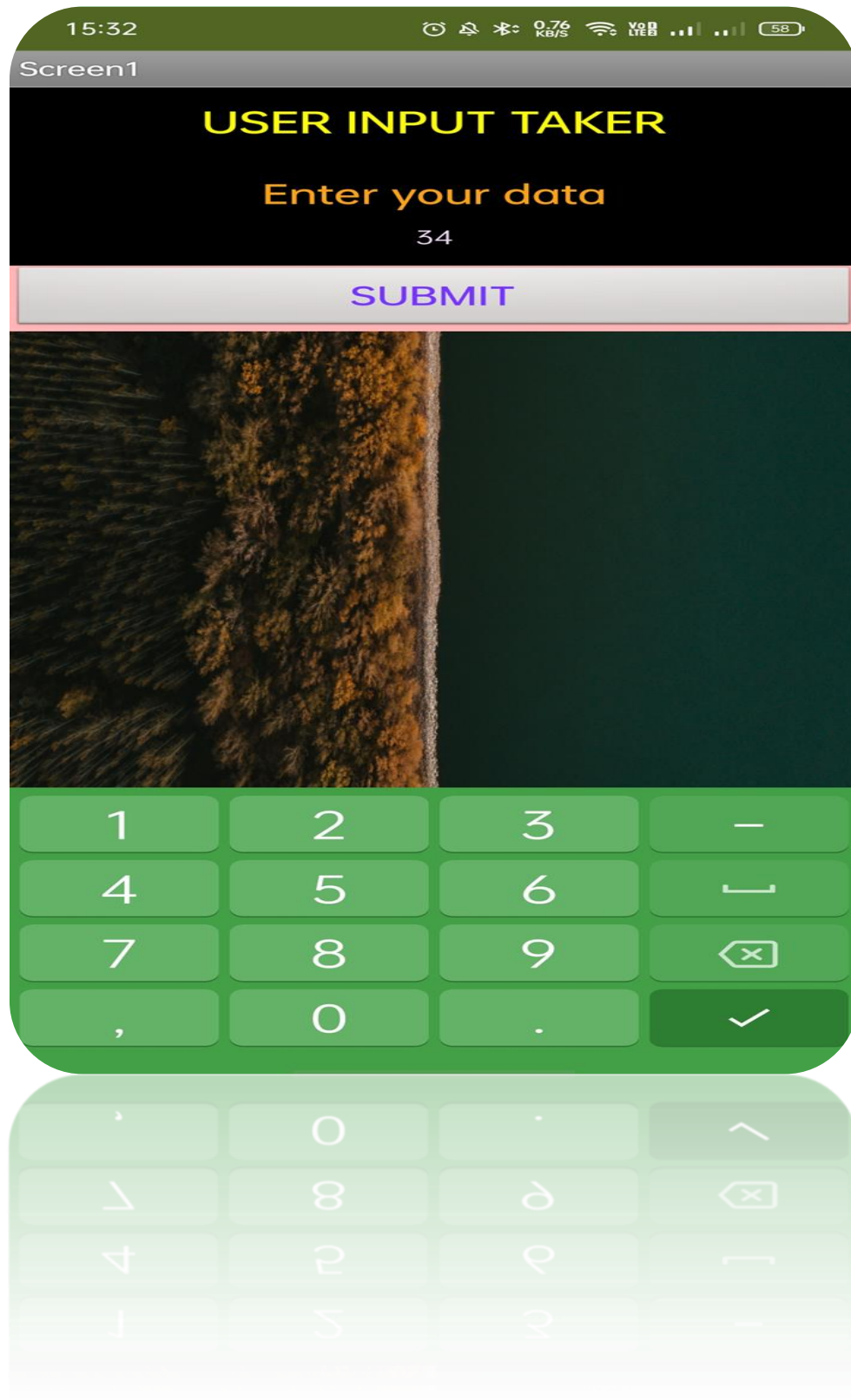
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
2021-07-18 15:01:59,192 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform
2021-07-18 15:01:59,193 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform
PS C:\Users\ASUS\Desktop\IOT\Cloud Service> & C:/Python39/python.exe c:/Users/ASUS/Desktop/IOT/ibmiot.py
2021-07-18 15:03:06,619 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:pey4ip:XDevice:95460
Message received from IBM IoT Platform: 34
user_data : 34

Message received from IBM IoT Platform: 46
```

ASSIGNMENT 4: MOBILE APP DEVELOPMENT

MOBILE APP AFTER BUILD WITH MI APP COMPANION (SHOWING WITH 2 DIFFERENT INPUTS)



ASSIGNMENT 4: MOBILE APP DEVELOPMENT

The screenshot shows a mobile application interface. At the top, a status bar displays the time 15:32, various icons, and a battery level of 58%. Below the status bar, a grey header bar contains the text "Screen1". The main content area has a black background with the title "USER INPUT TAKER" in yellow. Below the title, the text "Enter your data" is displayed in orange. A text input field contains the number "46" with a cursor. Below the input field is a grey button with the text "SUBMIT" in purple. The bottom half of the screen features a green numeric keypad with buttons for digits 1-9, 0, a comma, a period, a minus sign, an equals sign, a backspace icon, and a checkmark icon. The keypad is overlaid on a background image of a forest and a body of water.

15:32

Screen1

USER INPUT TAKER

Enter your data

46

SUBMIT

1 2 3 -

4 5 6 =

7 8 9 ↵

, 0 . ✓

ASSIGNMENT 4: MOBILE APP DEVELOPMENT

RESPONSE ON NODE-RED AFTER CLICKING SUBMIT BUTTON

