DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY,POLLACHI

Department of Computer Science and Engineering

Smart Farmer-IOT Enabled Smart FarmingApplication

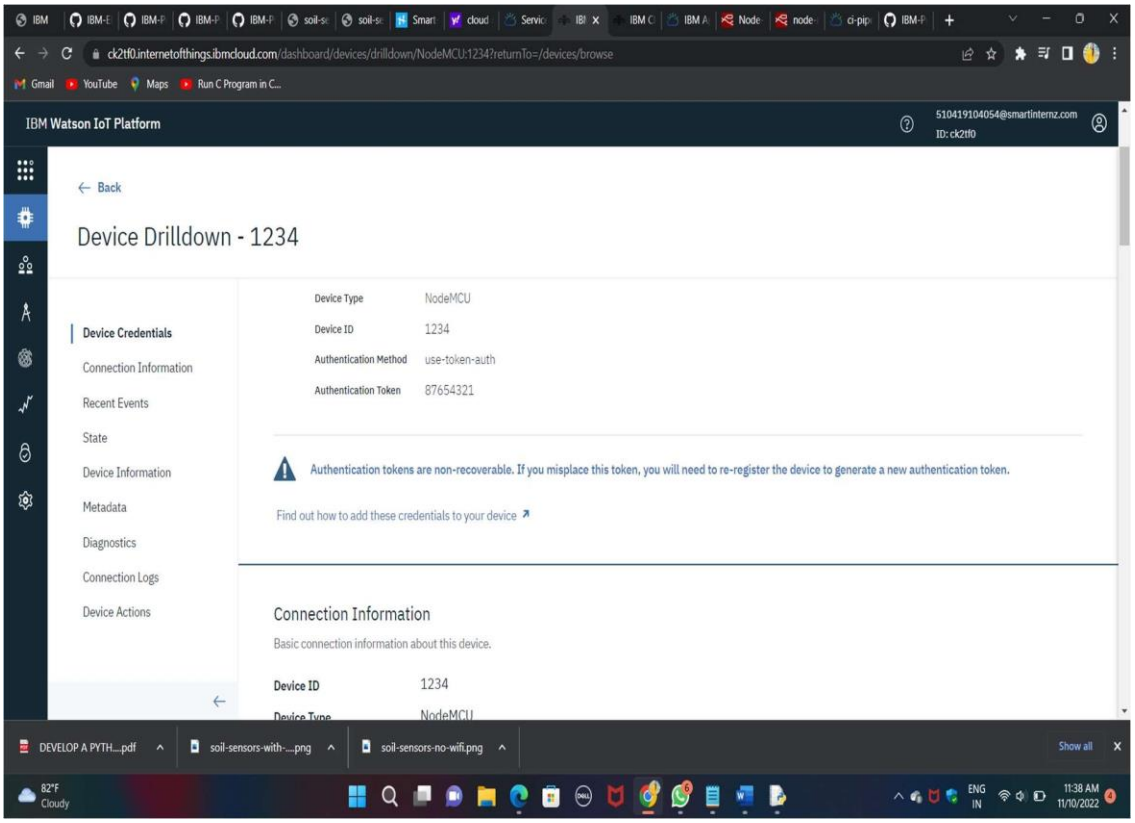
IBM NALAIYATHIRAN

BUILD A WEB APPLICATION USING NODE-RED SERVICE

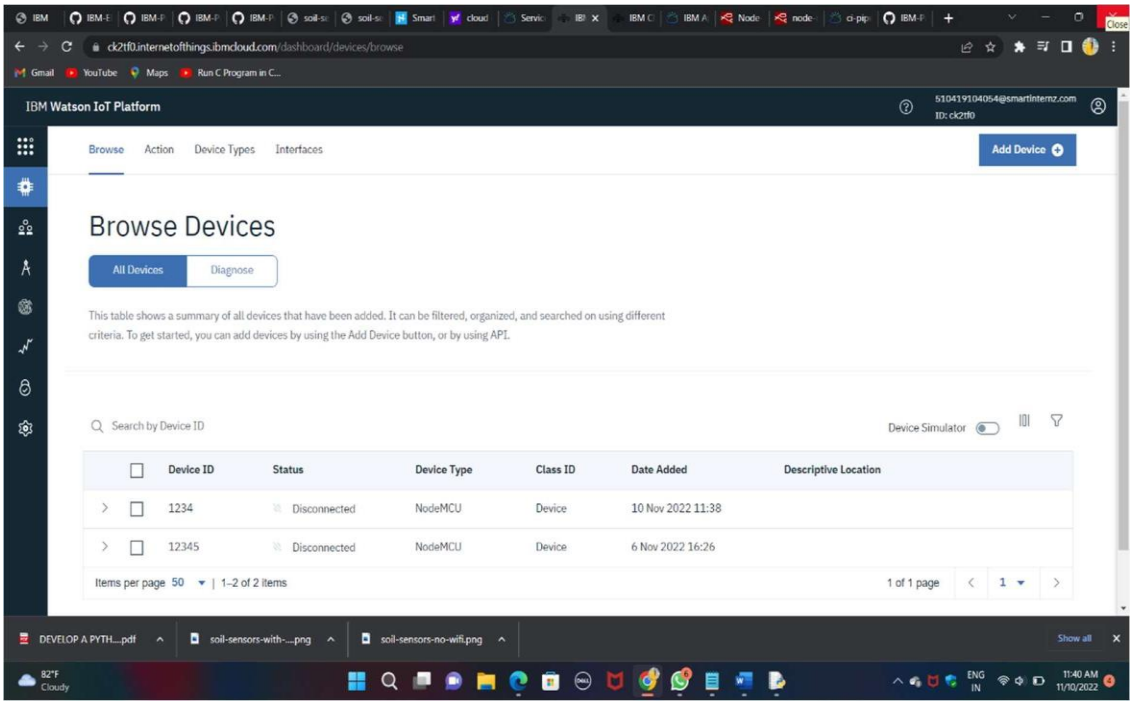
TITLE	**Smart Farmer-IOT Enabled Smart Farming Application**
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID08684
LEADER NAME	KRISHNAPRASATH U
TEAM MEMBER NAME	SIVAROHITH A GIRIPRASATH S S NIRUTHEESH R HARIHARASUTHAN M
MENTOR NAME	PRABHU K

BUILD A WEB APPLICATION USING NODE-RED SERVICE

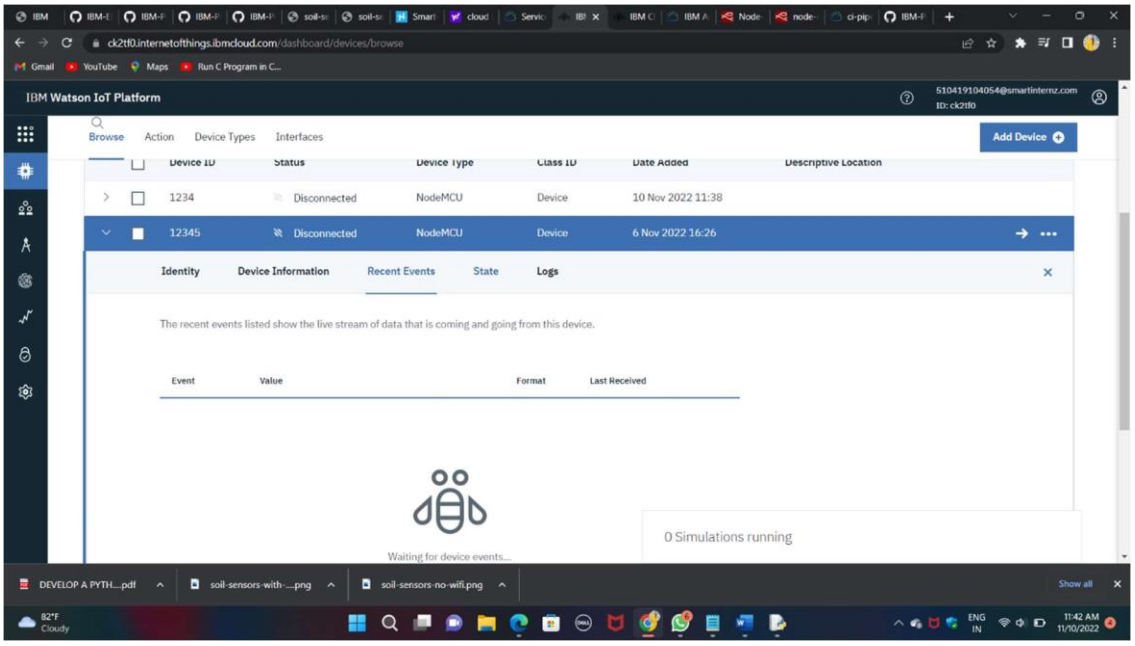
STEP 1



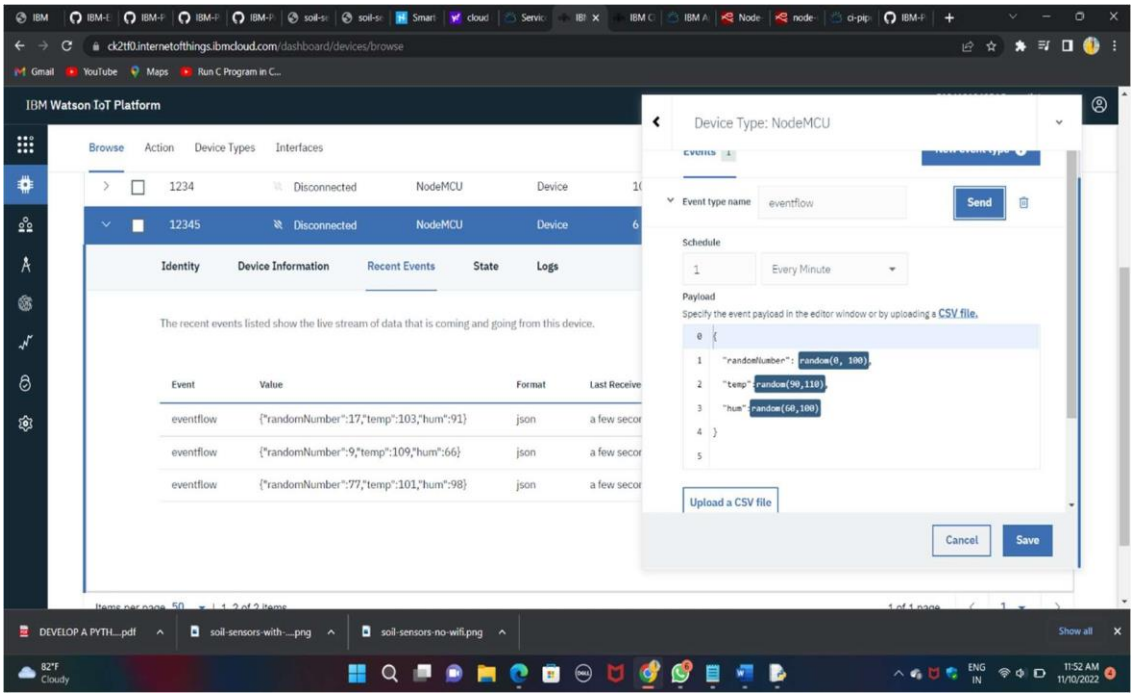
STEP 2:


ck2tf0.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
Diagnose
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
1234
Disconnected
NodeMCU
Device
10 Nov 2022 11:38
12345
Disconnected
NodeMCU
Device
6 Nov 2022 16:26
Items per page 50
1–2 of 2 items
1 of 1 page

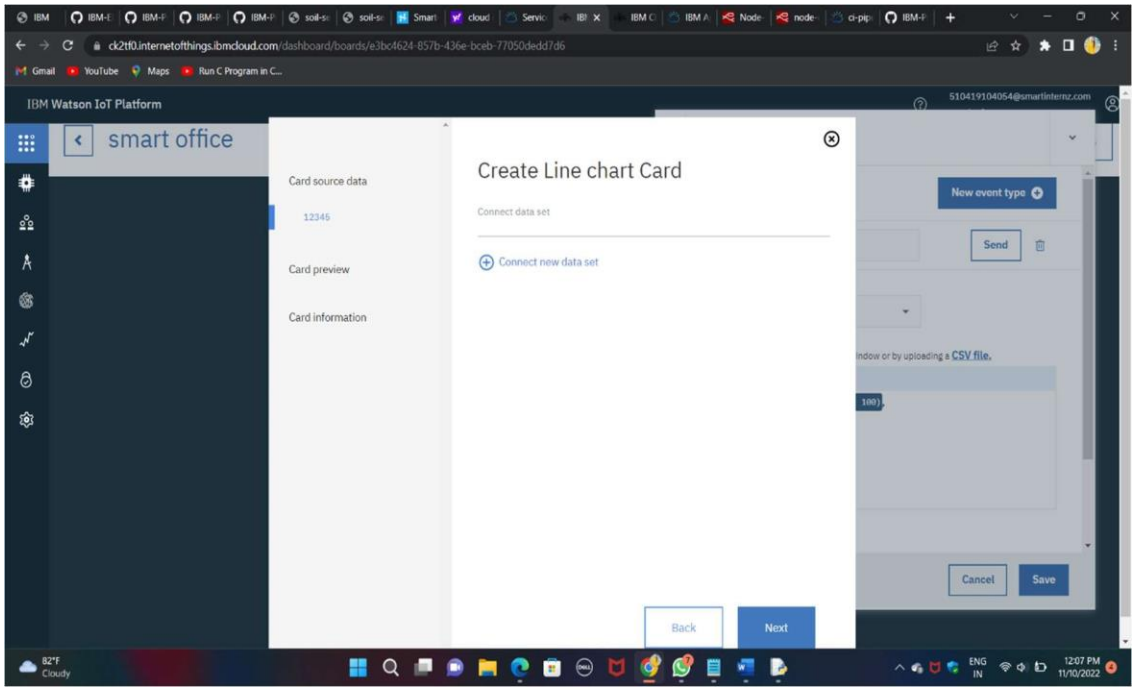
STEP 3:


ck2tf0.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
1234
Disconnected
NodeMCU
Device
10 Nov 2022 11:38
12345
Disconnected
NodeMCU
Device
6 Nov 2022 16:26
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
Waiting for device events...
0 Simulations running

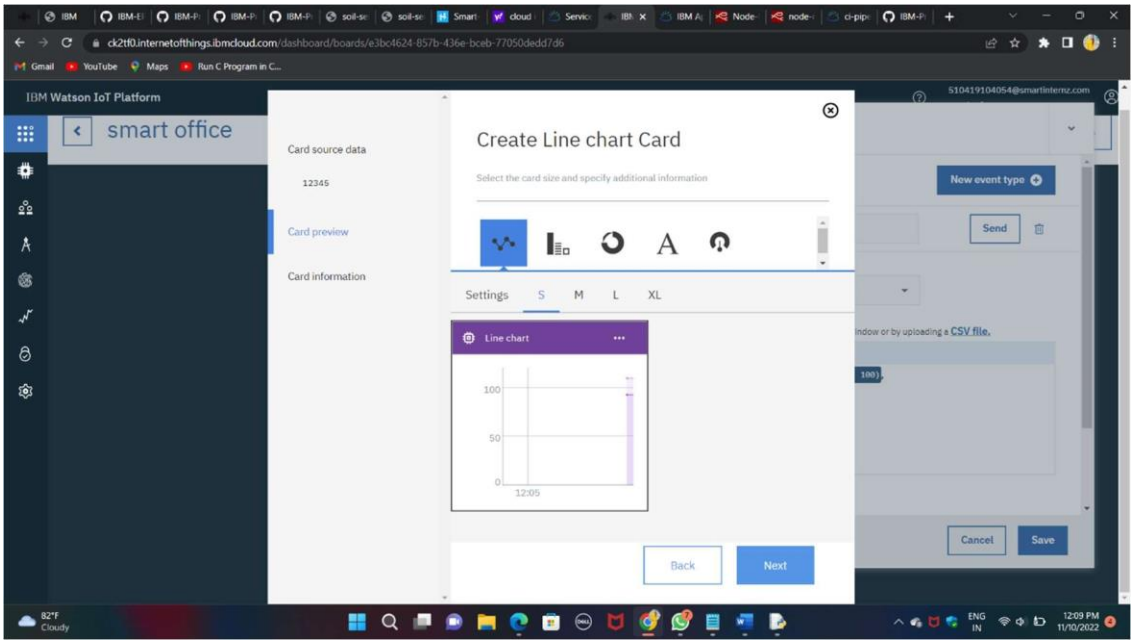
STEP 4 :


IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
1234
Disconnected
NodeMCU
Device
12345
Disconnected
NodeMCU
Device
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
eventflow
{"randomNumber":17,"temp":103,"hum":91}
json
eventflow
{"randomNumber":9,"temp":109,"hum":66}
json
eventflow
{"randomNumber":77,"temp":101,"hum":98}
json
Device Type: NodeMCU
Event type name
eventflow
Send
Schedule
1
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
Upload a CSV file
Cancel
Save

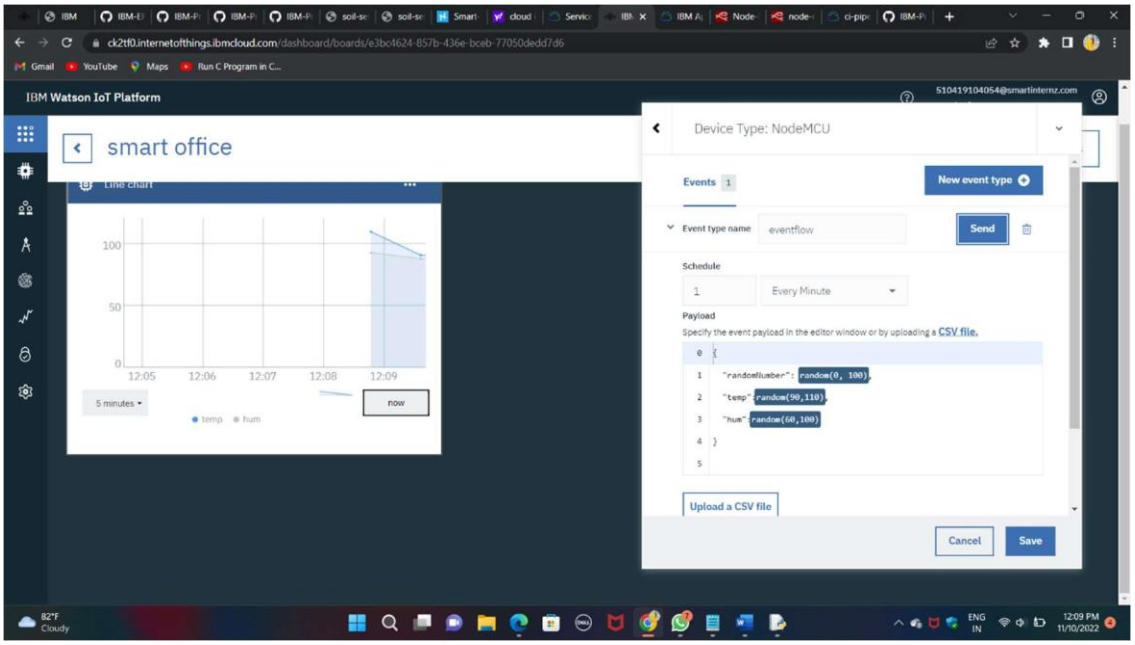
STEP 5 :


IBM Watson IoT Platform
smart office
Card source data
12345
Card preview
Card information
Create Line chart Card
Connect data set
Connect new data set
Back
Next
New event type
Send
Cancel
Save

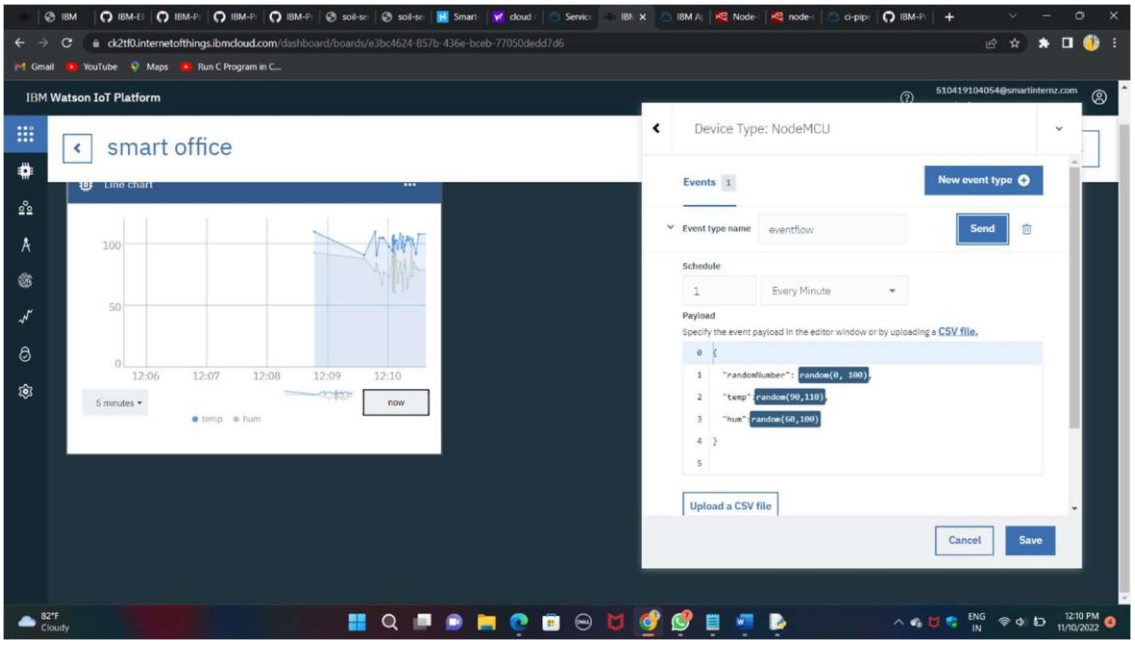
STEP 6 :


IBM Watson IoT Platform
smart office
Create Line chart Card
Card source data
12345
Card preview
Card information
Settings
S
M
L
XL
Line chart
Back
Next
New event type
Send
Cancel
Save

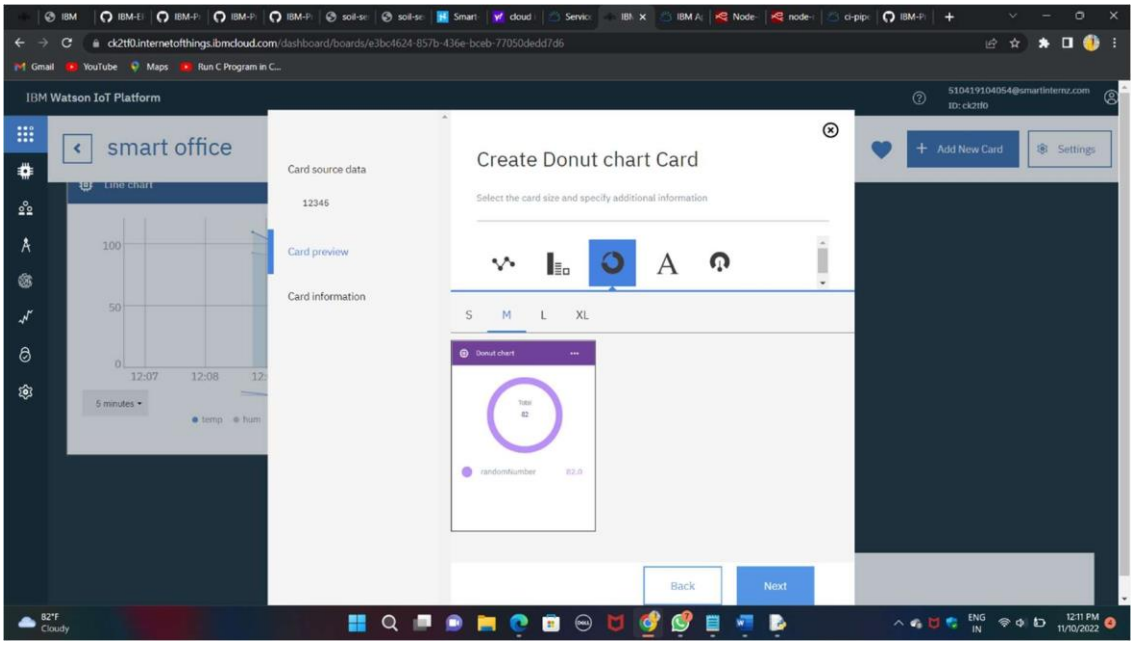
STEP 7 :


IBM Watson IoT Platform
smart office
Device Type: NodeMCU
Events
New event type
Event type name
eventflow
Send
Schedule
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
Upload a CSV file
Cancel
Save
5 minutes
now

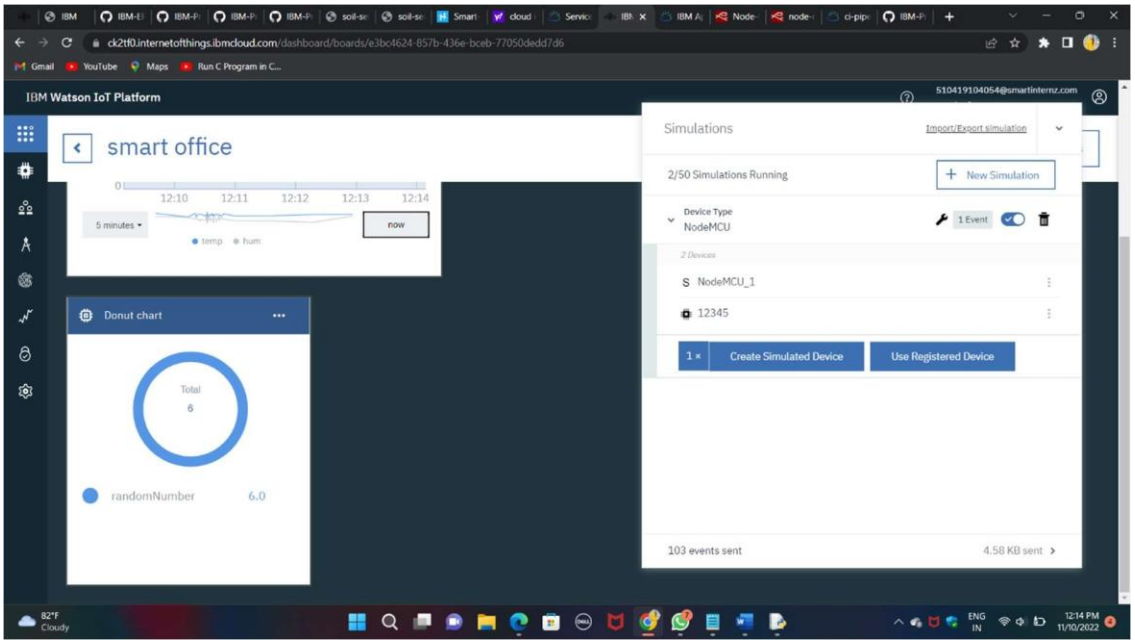
STEP 8 :


IBM Watson IoT Platform
smart office
Device Type: NodeMCU
Events
New event type
Event type name
eventflow
Send
Schedule
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
Upload a CSV file
Cancel
Save

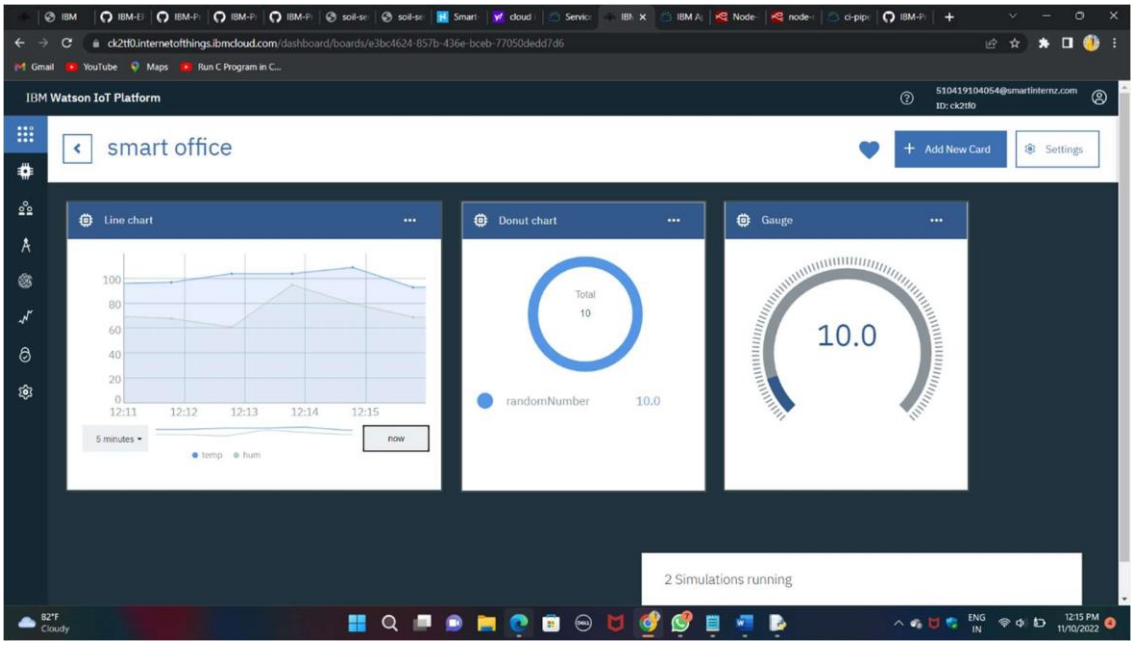
STEP 9 :


IBM Watson IoT Platform
smart office
Add New Card
Settings
Card source data
12346
Card preview
Card information
Create Donut chart Card
Select the card size and specify additional information
S
M
L
XL
Back
Next

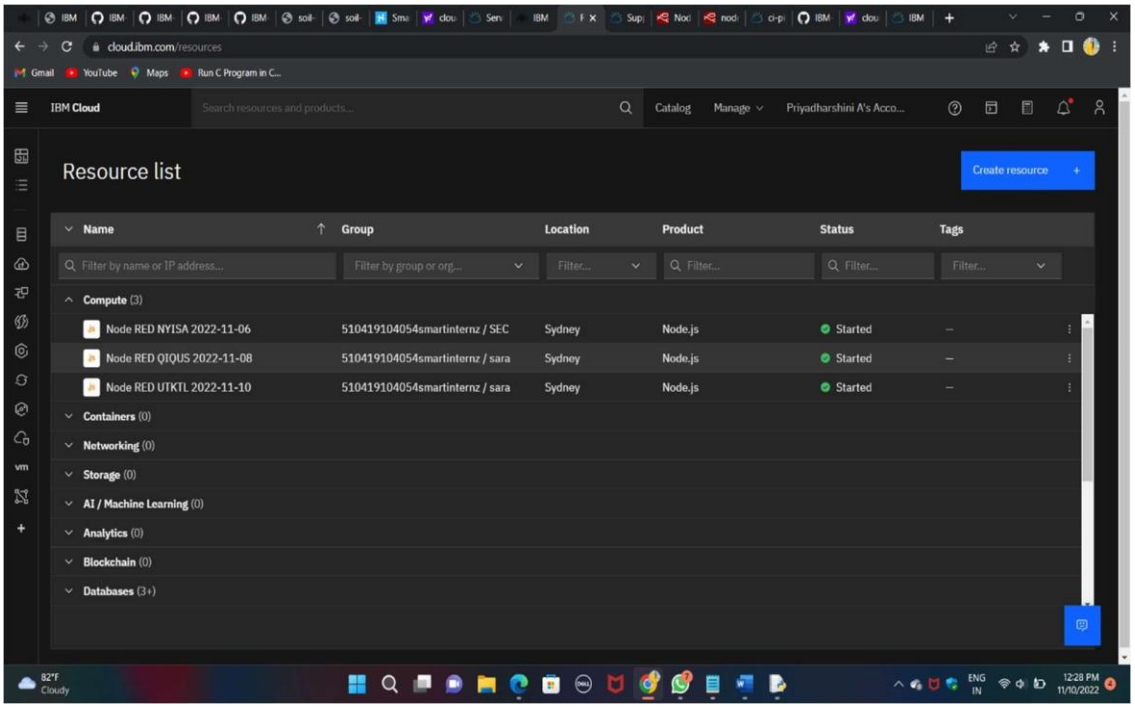
STEP 10 :



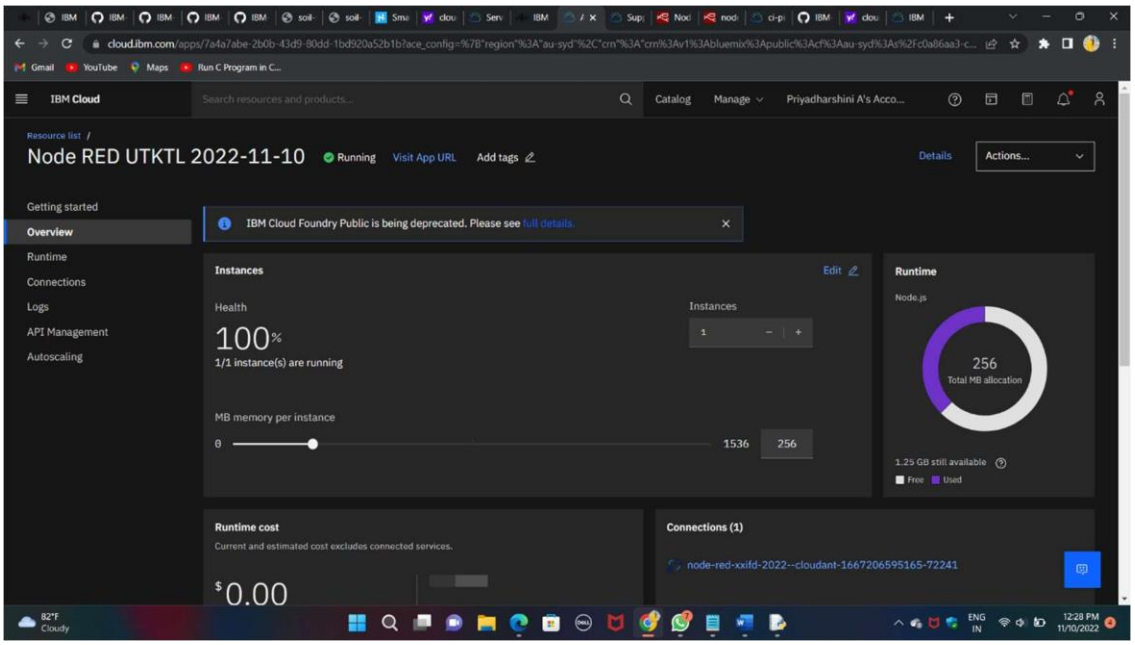
STEP 11 :



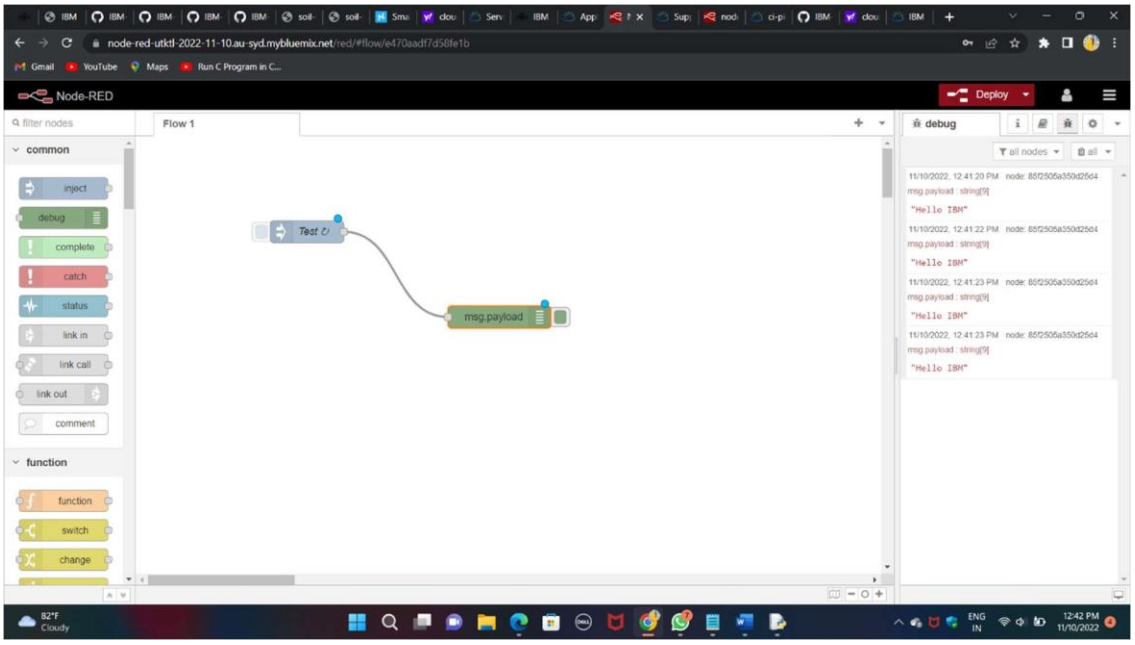
STEP 12 :



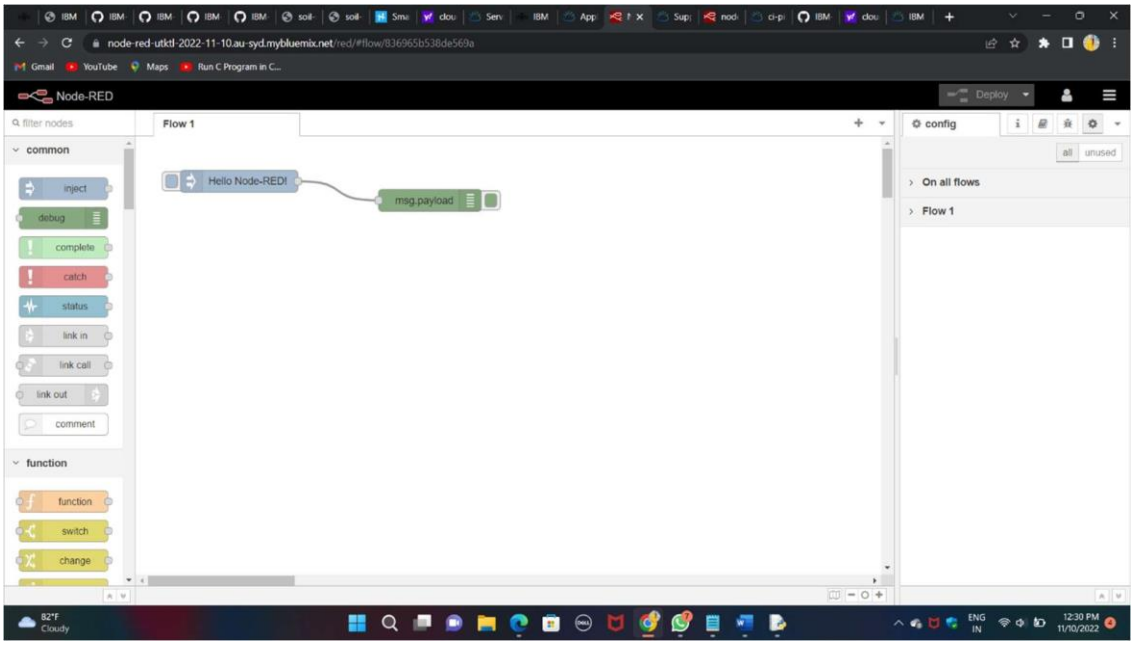
STEP 13 :



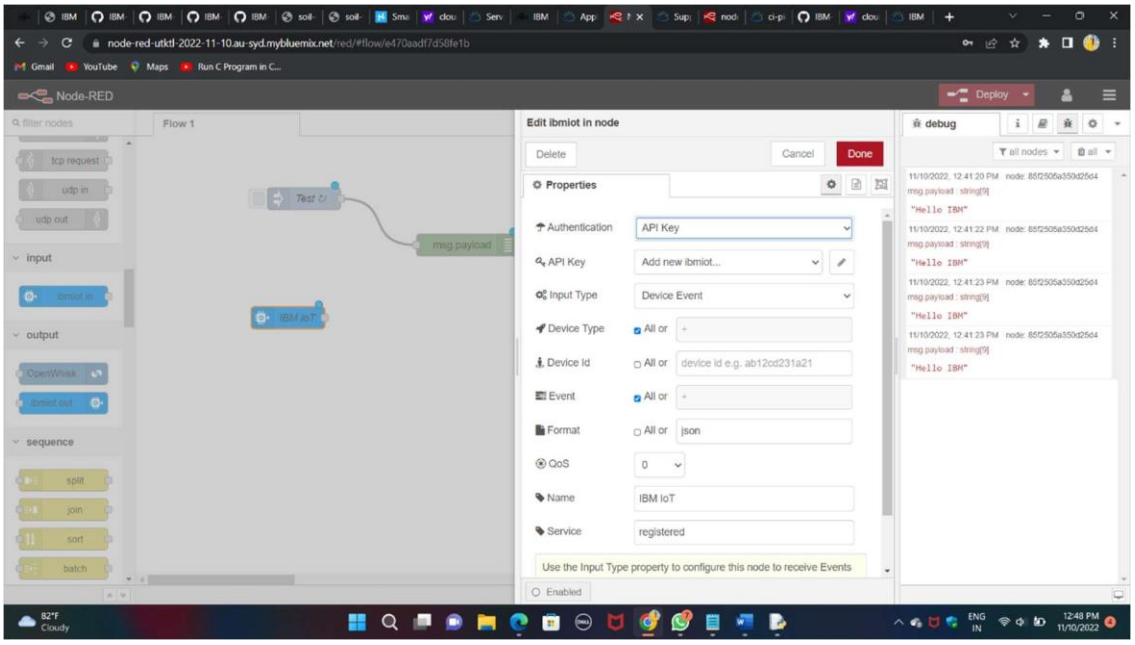
STEP 14 :



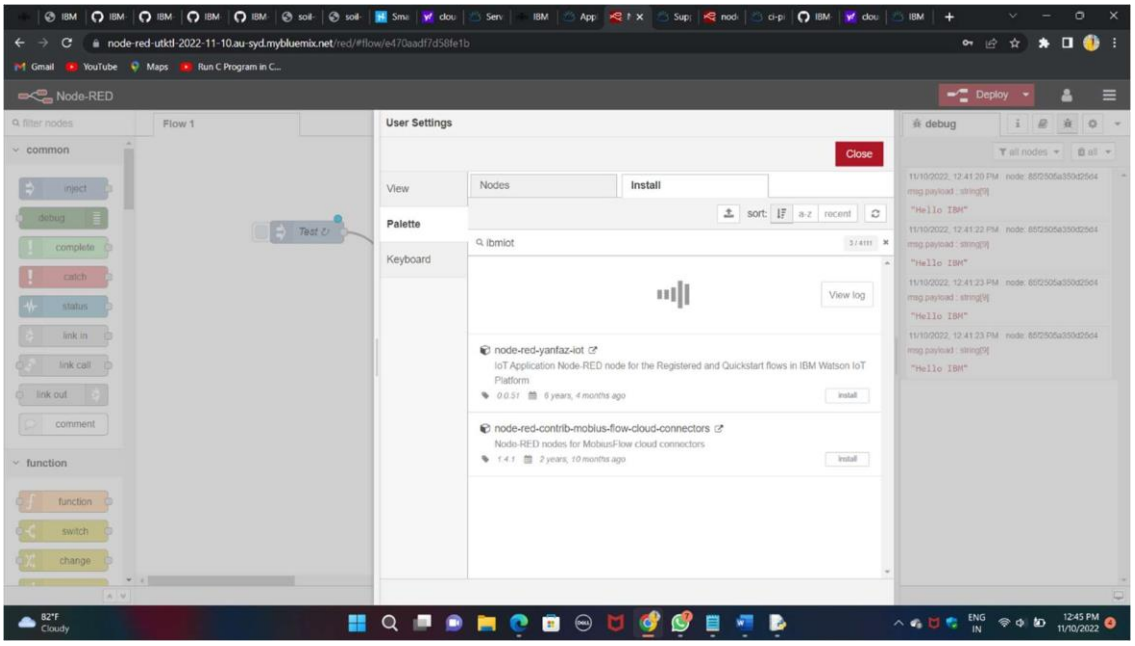
STEP 15 :



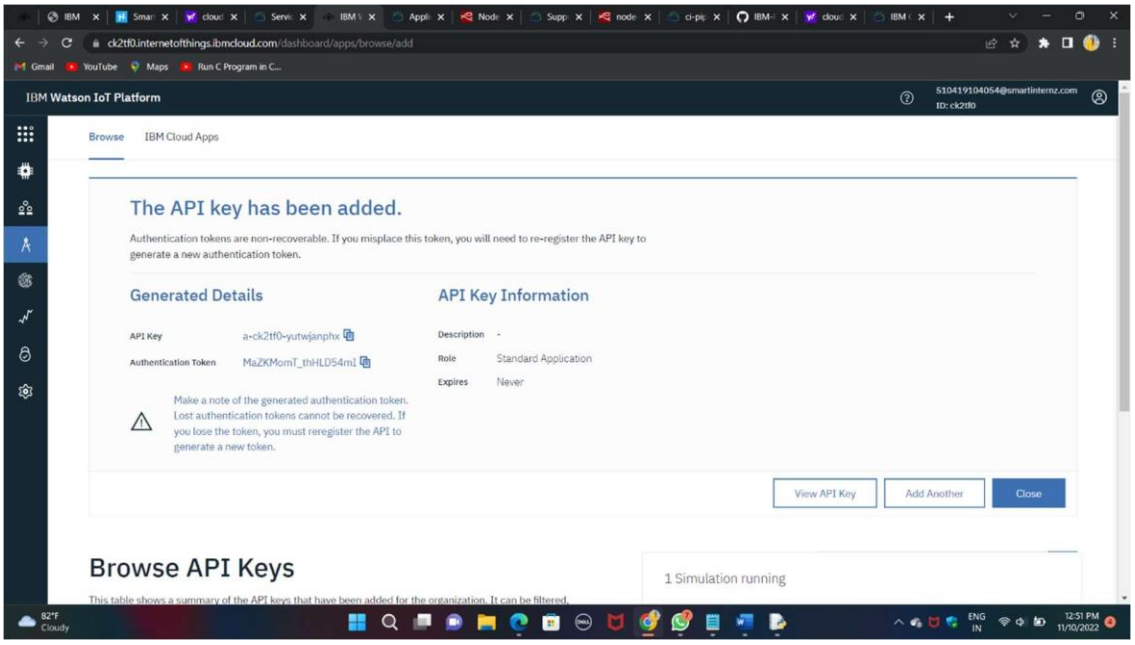
STEP 16 :



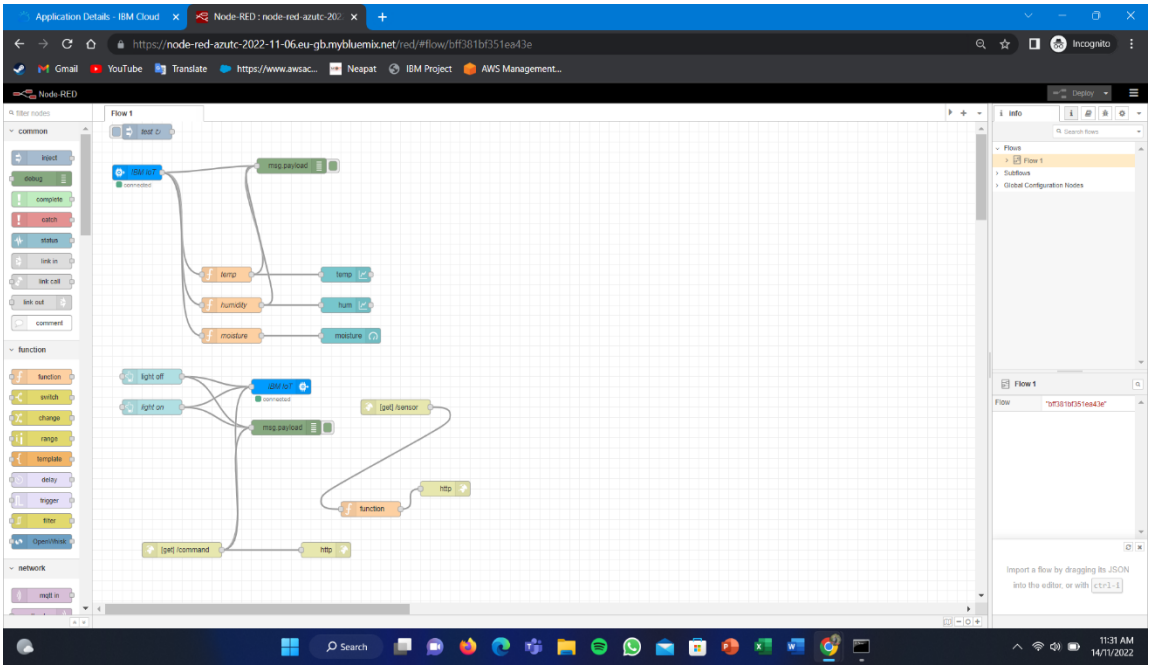
STEP 17 :



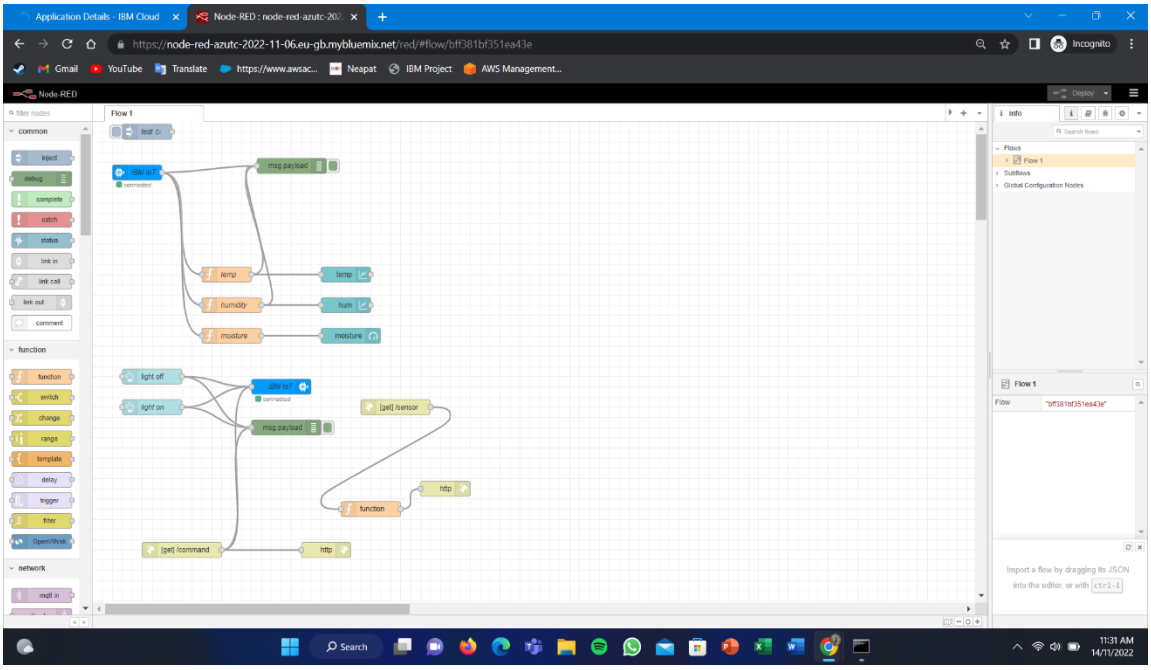
STEP 18 :



STEP 19 :



STEP 20 :



FINALLY, WE BUILD an APPLICATION USING NODE-RED