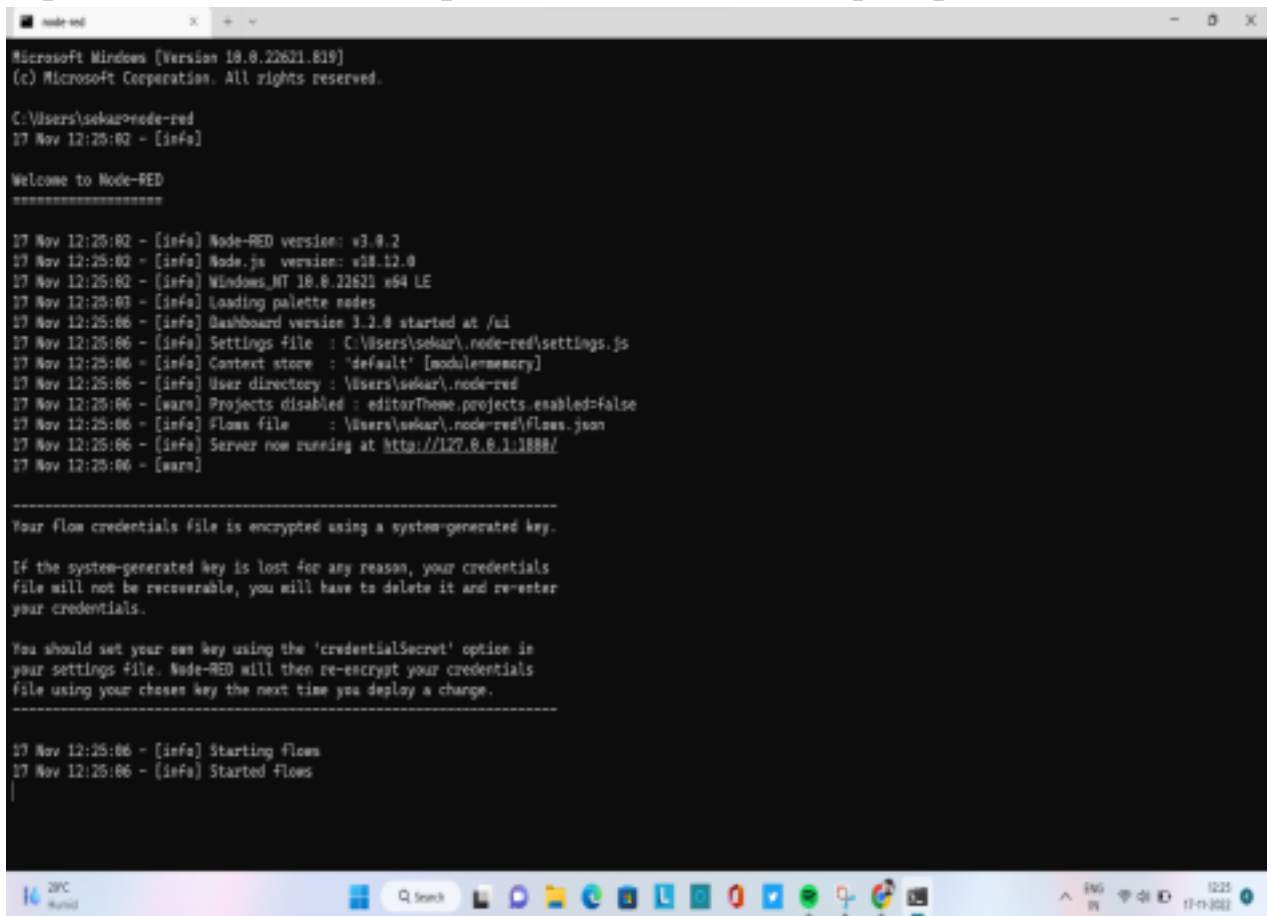


Create and Configure IBM Cloud Services

Create NODE RED Service

Date	1 November 2022
Team ID	PNT2022TMDT19096
Project Name	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

Step1: Install node red and open node red in command prompt



```
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sekar>node-red
17 Nov 12:25:02 - [info]

Welcome to Node-RED
*****

17 Nov 12:25:02 - [info] Node-RED version: v3.0.2
17 Nov 12:25:02 - [info] Node.js version: v18.12.0
17 Nov 12:25:02 - [info] Windows_NT 10.0.22621 x64 LE
17 Nov 12:25:03 - [info] Loading palette nodes
17 Nov 12:25:06 - [info] Dashboard version 3.2.0 started at /ui
17 Nov 12:25:06 - [info] Settings file : C:\Users\sekar\.node-red\settings.js
17 Nov 12:25:06 - [info] Context store : 'default' [module=memory]
17 Nov 12:25:06 - [info] User directory : \Users\sekar\.node-red
17 Nov 12:25:06 - [warn] Projects disabled : editorTheme.projects.enabled=false
17 Nov 12:25:06 - [info] Flows file : \Users\sekar\.node-red\flows.json
17 Nov 12:25:06 - [info] Server now running at http://127.0.0.1:1880/
17 Nov 12:25:06 - [warn]

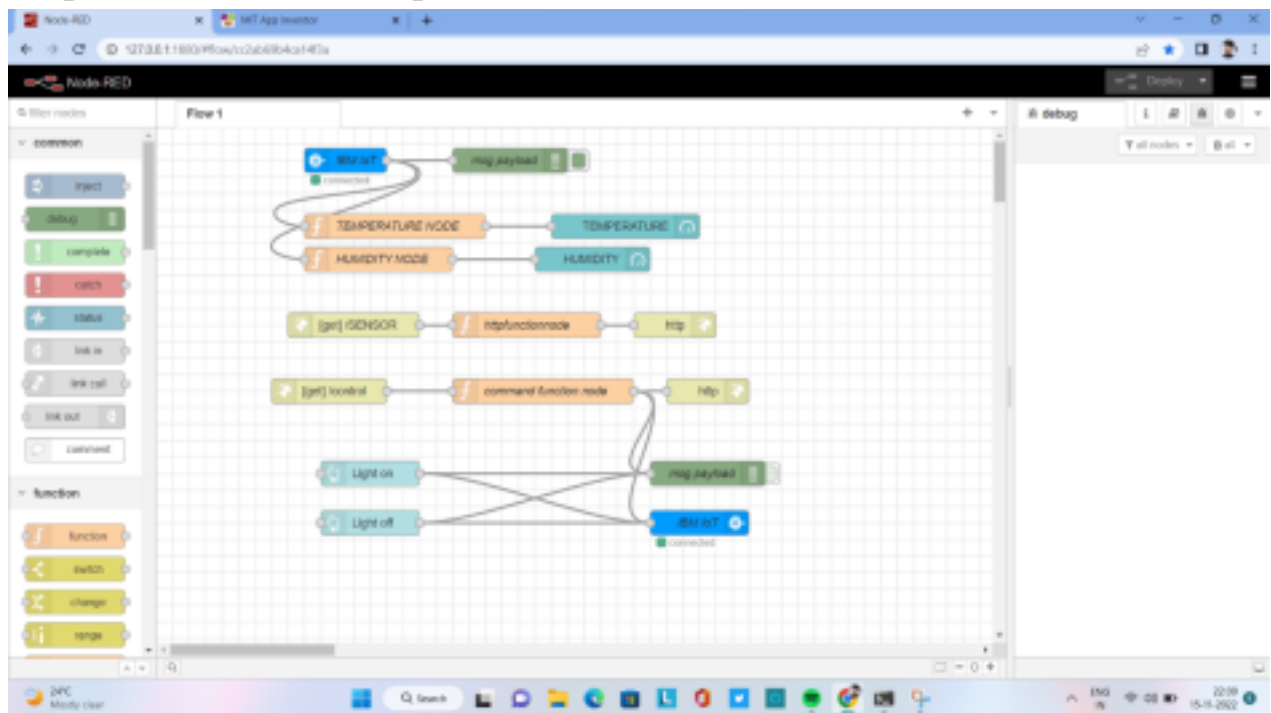
-----
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----

17 Nov 12:25:06 - [info] Starting flows
17 Nov 12:25:06 - [info] Started flows
```

Step 2: Select IBM IoT input in node



The screenshot shows the IBM Watson IoT Platform web interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays details for a device with ID 'PNT2021MED4747Y'. The device is currently 'Disconnected'. Below the device information, there is a section for 'Recent Events' showing a stream of data events. The events are listed in a table with columns: Event, Value, Format, and Last Received. The events are as follows:

Event	Value	Format	Last Received
event_1	{"temperature":4,"humidity":13,"soil moisture":3}	json	a few seconds ago
event_1	{"temperature":37,"humidity":58,"soil moisture":...	json	a few seconds ago
event_1	{"temperature":12,"humidity":74,"soil moisture":...	json	a few seconds ago
event_1	{"temperature":6,"humidity":11,"soil moisture":9...	json	a few seconds ago

At the bottom right of the events table, it says '1 Simulation running'.