

Internet Of Things

Lab - 1

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Aim :

To Display the time for every time interval with the help of Node-RED and concepts of IoT.

Software :

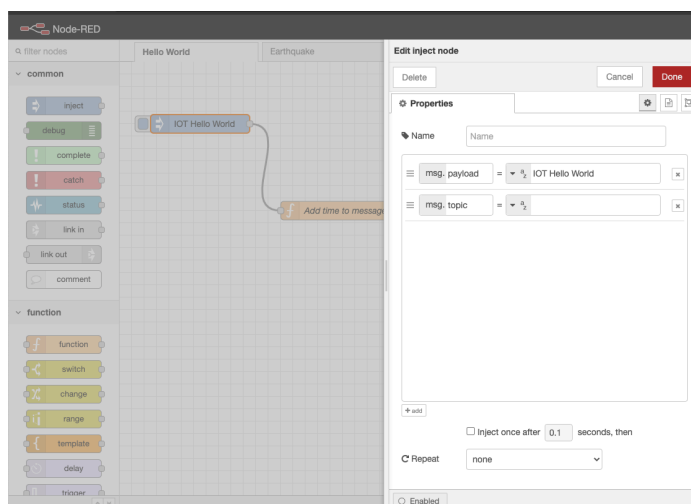
Node-Red Software.

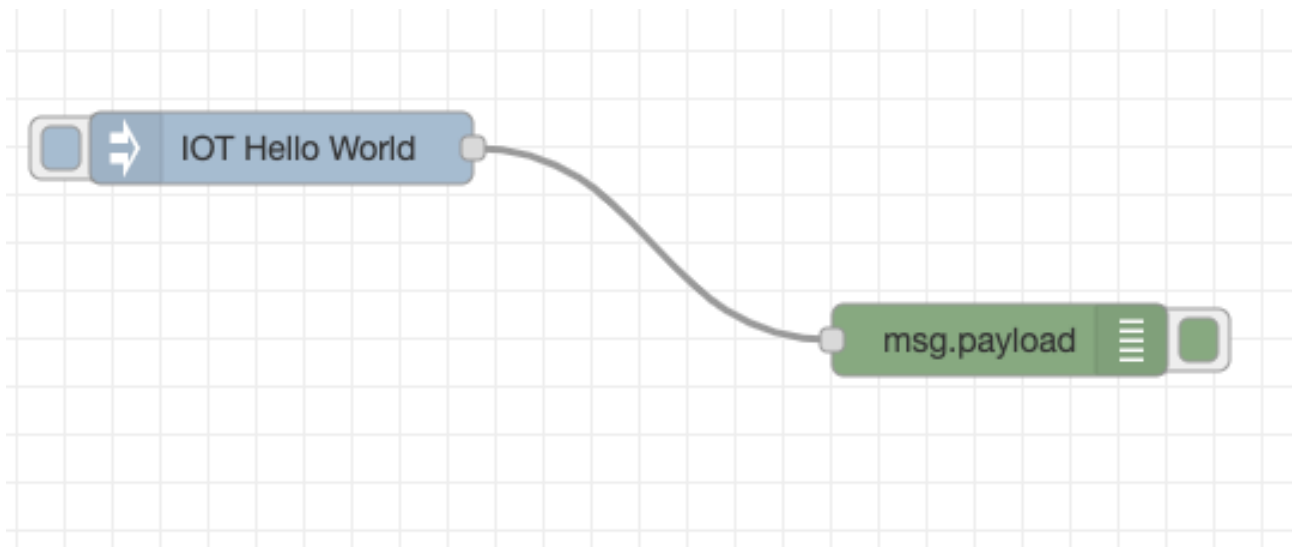
Methodology :

This video instructions are followed : <https://youtube.com/watch?v=IC24BSILFvQ>

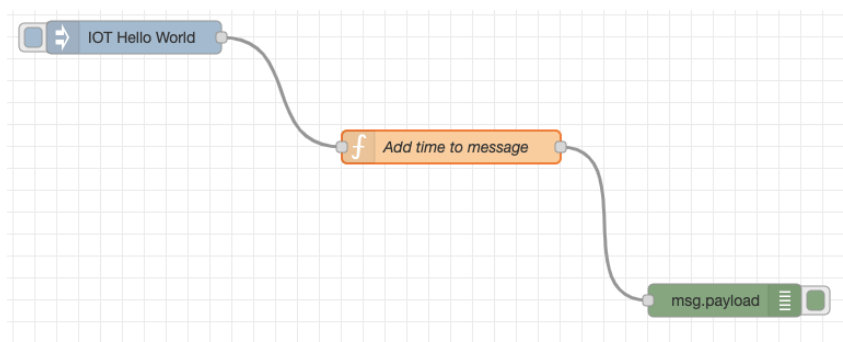
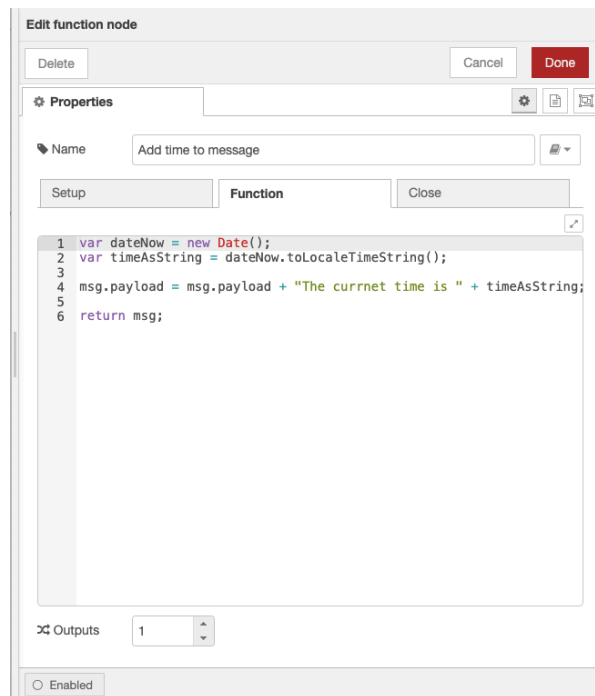
Simulation And Output :

1) Displaying Hello World :





2) Displaying the time :



```
07/08/2020, 11:35:04 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:35:04 AM"
```

3) Displaying time every few seconds in an interval :

The screenshot shows the 'Edit inject node' configuration window in Node-RED. It includes a 'Name' field, a 'msg.payload' dropdown set to 'IOT Hello World', and a 'msg.topic' dropdown set to 'z'. At the bottom, the 'Repeat' section is configured with 'interval' selected and 'every 1 seconds'.

```
"IOT Hello WorldThe currnet time is
11:38:39 AM"
07/08/2020, 11:38:40 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:40 AM"
07/08/2020, 11:38:41 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:41 AM"
07/08/2020, 11:38:42 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:42 AM"
07/08/2020, 11:38:43 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:43 AM"
07/08/2020, 11:38:44 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:44 AM"
07/08/2020, 11:38:45 node: cb83c9a9.cfb728
msg.payload : string[46]
"IOT Hello WorldThe currnet time is
11:38:45 AM"
```

Result :

Thus, with the help of Node-RED we have displayed a string and simulated the program to display the string along with me and along with me at intervals of 1 seconds.