# **Internet Of Things**

**Lab - 7** 



25 September 2020

#### Aim:

To simulate the IoT Protocols: **6LoWPAN** and **CoAP** using **Contiki** Operating System using a **Cooja** simulator to demonstrate the concepts of IoT.

#### Software:

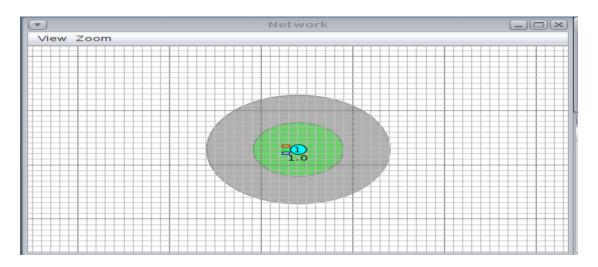
Contiki Operating System and Cooja simulator.

## **Methodology:**

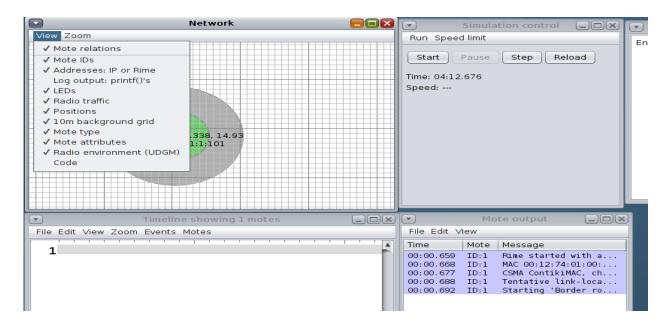
This video instructions are followed: https://www.youtube.com/watch?v=gIPV3tUqsXw

## **Simulation And Output:**

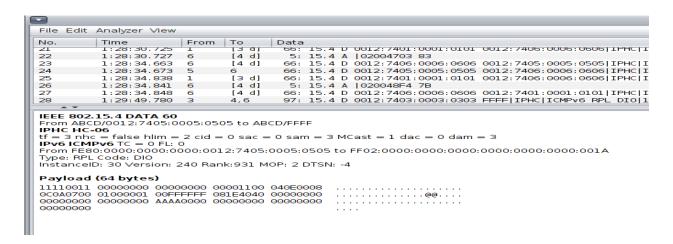
We Install the Contiki Operating System and then start the Cooja simulator. We select sky mote section, select the rpm-router and rpl-border-router to open the "border-router.c" file.



We compile then selecta few motes.



We select a new mote and proceed with the same process.



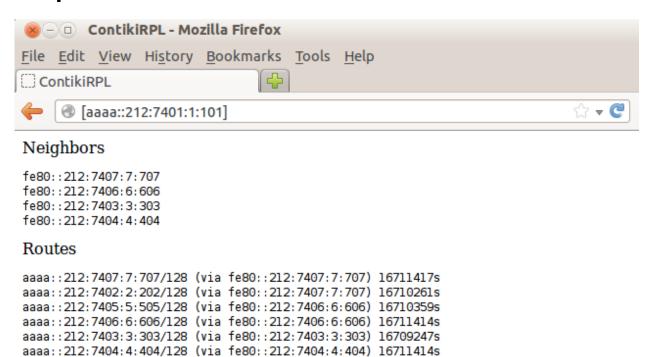
We then need to select the new terminal and then we have to give the commands:

cd..// ../examples/ipv6/rpl-border-router

At last we need to add the IPv-6 address to the browser

Then the sensors are selected from the post method of the and the sensors will be get through the post method.

## **Output:**



#### Result:

Thus, with the help of Contiki and Cooja, we have made a simulation of the 6LoWPAN and CoAP protocols of IoT.