**Objective -** The objectives of this project are :

1. To study RPL and P2P-RPL, protocols for low-power lossy networks.
2. Implement the P2P-RPL, simulate these protocols on any simulator (COOJA here) and compare their performance based on parameters:

* Average Node Count
* Traffic Density

**Tools Used -** Cooja Simulator, Contiki OS

**References -**

1. Adnan Aijaz, Hongjia Su, and Hamid Aghvami. Corpl: A routing protocol for cognitive radio enabled ami networks. In IEEE, page 9, 2015.
2. E. Baccelli, M. Philipp, and M. Goyal. The p2p-rpl routing protocol for ipv6 sensor networks: Testbed experiments. In SoftCOM 2011, 19th International Conference on Software, Telecommunications and Computer Networks, 2011.
3. G. D'Angelo, S. Ferretti, and V. Ghini. Simulation of the internet of things. In 2016 International Conference on High Performance Computing Simulation (HPCS), 2016.
4. Mukul Goyal, Emmanuel Baccelli, Anders Brandt, and Jerry Martocci. A Mechanism to Measure the Routing Metrics along a Point-to-Point Route in a Low-Power and Lossy Network. RFC 6998, 2013.
5. M. Philipp M. Goyal, E. Baccelli. Reactive discovery of point-to-point routes in low power and lossy networks. Internet Engineering Task Force, page 93, 2013.
6. Alberto Camacho Martnez. Implementation and testing of loadng: a routing protocol for wsn. PerisTech, 14(3):290{294, 2012.
7. Sarim Intezar Qazi Reshma Dastageer. Desing algorithm for wsns with mixed tranc using rpl. Advances in Applied Mathematics, page 47, 2017.
8. R. Kelsey K. Pister T. Winter, P. Thubert. Rpl: Ipv6 routing protocol for low-power and lossy networks. Internet Engineering Task Force, 2012.
9. C. Tang, Y. Zhang, and Y. Wu. The p2p-rpl routing protocol research and implementation in contiki operating system. 2012 Second International Conference on Instrumentation, Measurement, Computer, Communication and Control, 2012.
10. S. Umamaheswari and A. Negi. Internet of things and rpl routing protocol: A study and evaluation. In 2017 International Conference on Computer Communication and Informatics (ICCCI), 2017.