SSN COLLEGE OF ENGINEERING (Autonomous)

(Affiliated to Anna University, Chennai)

DEPARTMENT OF CSE

UCS 1511 NETWORK LABORATORY

**A9: Simulation of Error Correction using Hamming code**

Faculty In-charge: Dr. S. V. Jansi Rani, Associate Professor / CSE

Batch: 2020-2024 Year: III Sem: V Sec: B

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**Learning Outcome:**

To be proficient in developing an application to simulate error correction using hamming code technique using socket programming in C

**Write the code using socket programming in C**

1. Establish the basic connection between client and the server.
2. Develop an application to simulate error correction using hamming code technique
3. Client gets input data from user
4. Find the number of bits to be transmitted
5. Find the redundant code to be generated depending on the number of bits in the data
6. Compute the value of r bits
7. Embed “r” bits in data and send the data to the server
8. Server will find the r bits and finds whether the data has error or not. If error present, then it will find the location of error.
9. Correct the data if it contains error and display it.