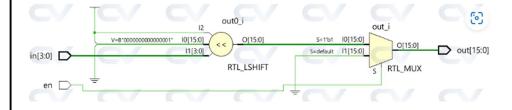
DAY #10 30 DAYS OF VERILOG

AIM - TO IMPLEMENT 4x16 DECODER

A **4-to-16 decoder** is a combinational circuit that takes a 4-bit binary input and produces a 16-bit output. It's commonly used in digital systems for address decoding, memory selection, and other applications.

A **decoder** circuit of the higher combination is obtained by adding two or more lower combinational circuits. 4 to 16 decoder circuit is obtained from two 3 to 8 decoder circuits or three 2 to 4 decoder circuits. When two 3 to 8 Decoder circuits are combined the enable pin acts as the input for both the decoders.

Schematic -



Verilog Code-

