

## EXPERIEMENT NO. 1

Simulation using all the modeling styles and Synthesis of all the logic gates using Verilog HDL

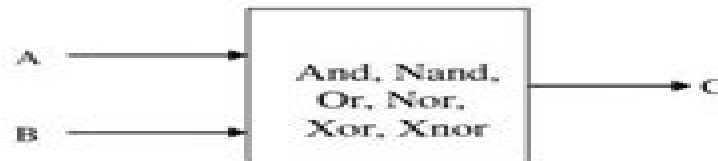
### AIM:

Perform Zero Delay Simulation of all the logic gates written in behavioral, dataflow and structural modeling style in Verilog using a Test bench. then, Synthesize each one of them on two different EDA tools.

### Electronics Design Automation Tools used:

- i) FPGA Advantage 3.1 (includes Model Sim simulation tool and Leonardo Spectrum Synthesis Tool)
- ii) Xilinx Project Navigator 8.1 (Includes all the steps in the design flow from Simulation to Implementation to download onto FPGA).

### Block Diagram:



### Truth table:

And Gate:

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

Nand Gate:

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

Xor Gate:

Or Gate:

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

Nor Gate:

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

Xnor Gate:

# Hdl Lab Manual

**Yan Bai**



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