| Lecture - 6 |
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| A Verilog Modeling |
| . The plant from the formal block |
| Lecture - 6 **Nerilog Modeling to the state of the state |
| |
| Behavioral Structural |
| |
| Now a system is working? How a sys is constructed? |
| Jan 3 |
| * Rehavioral Modeling |
| * Example: 16:1 Multiplexer (notation) 1 (s |
| 22.290 |
| module munitoto (in, sel, out) stranstate |
| 1 5 - 2 |
| input [3:0] sel; in 16:16:16:16:16 |
| output out; Mux |
| input (15:0) in; input (3:0) sel; output out; where (3:0) t: |
| assign out = in [sel]; / Equivalent to accessing |
| endmodule / element of an average |
| . , 0 |
| Note: 9 |
| Note: In above example, we have only specified the behavior of a 16:1 multiplener. |
| dehavror of a 16.1 mulliplener. |
| × 11). + |
| * Write similare codes for the following: |
| 1) 8.1 MUX, 4:1 MUX |
| 2) 4:2 Encoder, 8:3 Encoder |
| 3) 2:4 Decoder, 3:8 Decoder |
| |

| # It - Else statement | Le Mandred Man | |
|--|-----------------------|--|
| # If - Else statement if - else should be wed | only energle Balways | a) block |
| 0 | | |
| - Lyntan: | O wearing its of | |
| 1) if (condition) | V mentionita | |
| begin | a system is merking ? | cm K |
| statements | a system is merking ? | , |
| end | | |
| | Laton Madeling | ST & |
| 2) if (condition) begin | 11.M 1:31 : elgan | x 5-1 |
| begin | | Der på |
| statemente | tos millotalianos | . Larry |
| end else begin statements | ini Porzil ting | (1 |
| elsé . | : las [0:8] tom | |
| begin | too test | |
| statements | the triest water | + |
| private end totaring; | magn out = in Lead | -0 |
| the exercit of an average | al allo | - Pendin |
| 3) if (condition) | | |
| all hiding beginner and | I atmin sente in | : atoV. |
| . statements (: a) | belanior De a | |
| end | | |
| else it (condition) | echan continues | tich x |
| begin XN | 8:1 MUX 4:1 M | 6 |
| statements | L. 2 Franks 8. | (0) |
| end son-soft 5 | 234 monday 33 | Ú. |
| else | | |
| begin | | The state of the s |
| statements | | |
| end | | |
| | 100 | |





