Lecture - 10
* Procedural Assignment (contd.)
* Recap: . while loop
and loop
· for loop
· repeat loop
· # Time-value
· D (event-expression) · Laboratory tasks
· Laboratory tasks
J. Company of the com
* Example: 2:1 MUX wing procedural style
module muse21 (in1, in0, s, f);
input in , in O, B:
output see 4;
abones & ain 2 or B)
ahorays & (in ) or in 2 or 8)  if (s) // if (s=1)
f = in1;
oli o
f = in0;
f = uv()
endmodule
Company of the compan
· A 2:1 MUX will be synthesized.
· always @lin1 or in? or in?);
(Vegnal)
always @ (in1, in2, s)
(lequel)
always @ (*) . Jalways block gets executed when
always @ (*) . / always block gets executed when
1/ changes
11 manys

# Example: A D type negetive edge triggered flip-flop
Hip-Hop
module dff_negedge (D, clock, Q, Qbar); input D, clock; oritput reg Q, Bbar; ahvays @hegedge clock) begin
input D clock;
outnut rea Q. Bbar:
chares @hearder clock
beam
Q= D;
Char = ~D;
Cud Char = ~D;
endmodule
+ Example: A 4 bit counter with asinchronous
*Example: A 4 bit counter with asynchronous
module counter (clk, 43t, count);
input clk, rst;
output seg [3:0] count;
always Oposedge elle or posedge 45t)
begin
it (not)
count <= 0;
cont + 1 le
count <= count +1;
en a
endmodule

