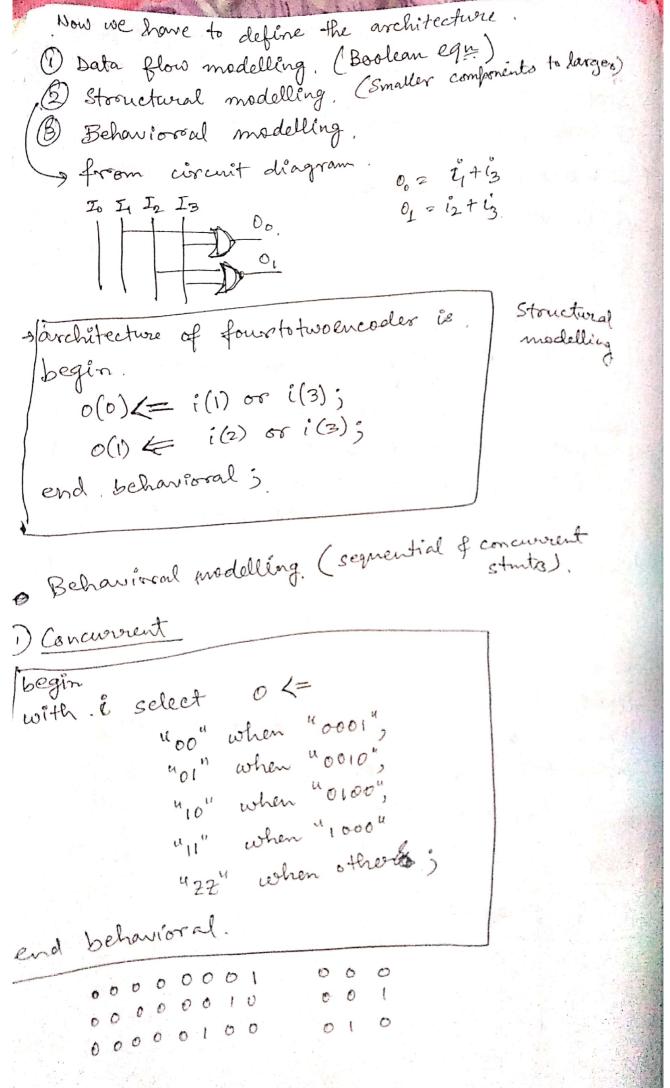
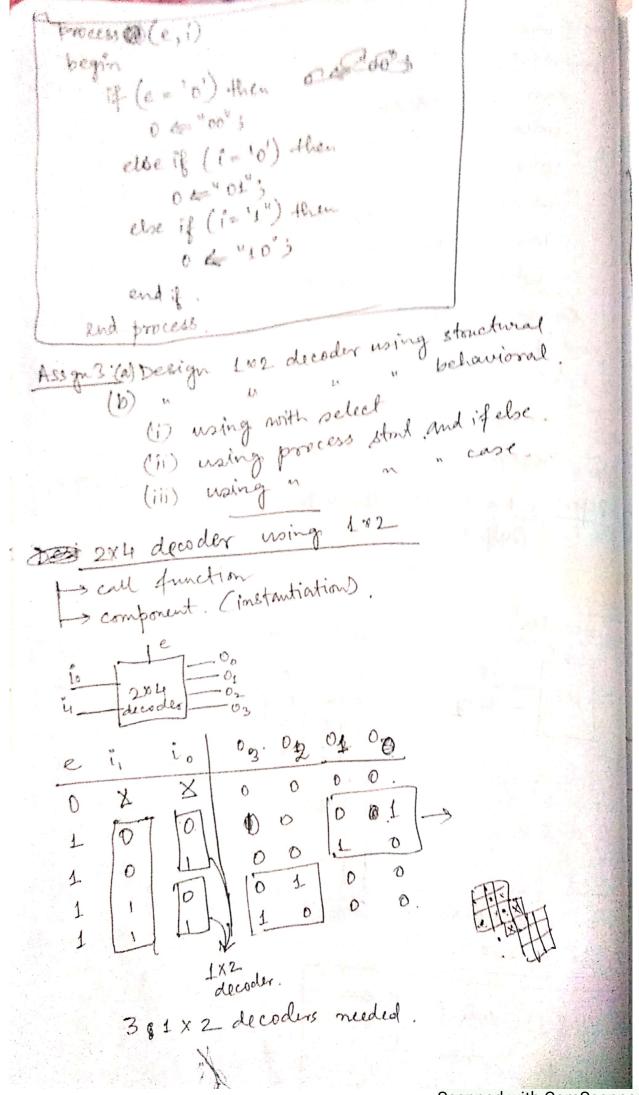
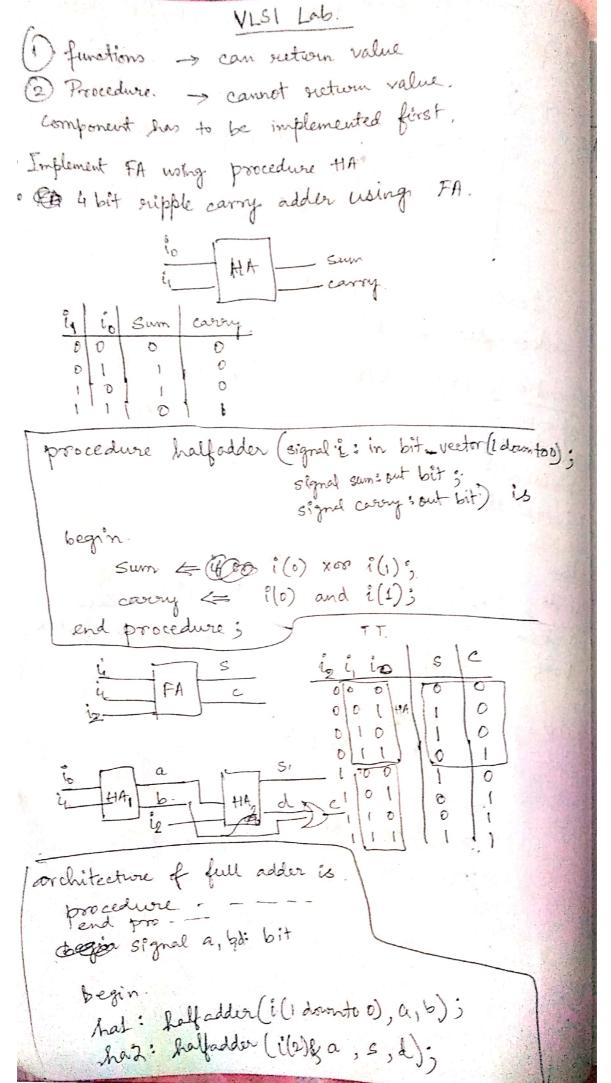
Handware Description Language (HDL) WHOL Verilag. ISE Design Suite FPGA -> Filled Programmable Gate Array Encoder in VHDL: It entity - the block diagram defines inputs & outputs. Tentity four to two encoder is port (i: in bit\_vector (3¢ down to 0); o: out std-logle-vector (1 down to-0)); end fourto two encoder; bit-vector() {0,1} Std-logic = ( ) not only o and 1, don't cases, etc. Std-logic-vector (1) Iq values boolean - true or false. Fruth table 0. 01 if 0 0 0 0 . So in high impedance state. (2)



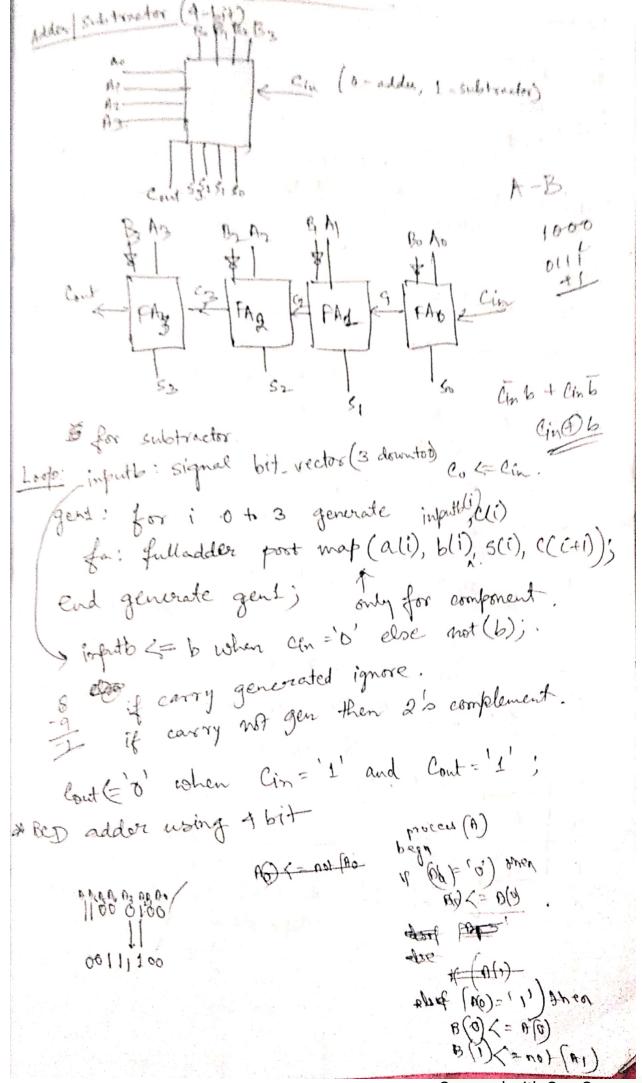
Sequestion stand (Process some) begin Process (1) case t is total when "0001" => 0 <= "00"; when "0010" => 0 = "01"; when "0100" => 0 2= "10"; when "1000" => 0 == "11"3 when others => 0 <= "22"; end case; end process; end behow/oral; Assign a 8x3 encoder. ina all 3. Assyn? Design a decimal to BCD encoder Lab Report: Name, TT, Block Ding, Structural design, Output. Decoder: Truth table 1×2 decoder 01 00 00 1×2 -01 0 0 Strictwal. oo e e and front(i) OLE e and i with (efi) select 0 = "0- > "00" when 11, 4 1.04



proported L. signal a: bit vector (1 downto 0) de: metatro deceder port map (e, f(1), a); 2: one to two decoder port map (a(0), i(0), o(1 down to 0)); do: one to two decoder port map (a(1), i(0), o(3 downto 2)); 0(0)= with e solect 0 (= "00" when '0' . with ( & 8 i) select 0 <= "01" w'



end arch



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H.A. procedure halfadder (a, b: in bit, Sum, carry; out bit)! of for variable sum = a xor b; carry = a and b; process (aa, bb, cc) begin variable 45° bit hi: halfadder (66, cc), s, c); hi: halfadder (aa, s, ss, co); Sum Sum: = 55 3 constanted := c as consely; end process. end behavioral A-bit ripple cin=0 rehitecture - begin.
rolledure halfadder (a,b:in bit, sum, carry: out bit) is. fun: = a sor b; carry: = a and b; end procedure;

procedure fulladder (aa, bb, ce: in bit, begins write full adder code without prodes end procedure; for in 0 to 3 loop. f: fulladder (ali), bli), s(i), (ii) 4 bit ripple carro