HALF SUBTRACTOR

module HS (a, b, d, bo);
input a, b;
butput a, bo; were n;
xor (d, a, b);
not (n, a);
and (bo, n, b);
endmodule

[00]

module Hs(asb, d, bo);

input a, b;

output d, bo;

assign diff = a 1 b;

assign bo = noa b;

end module

[do]

module HS(a,b,d,bo);

nput a,b;

output veg d,bo;

always@(*).

begin

d = a^b;

bo = na 4b;

end

endmodule

Testbench:

module HS_HS (); ... It is regasb; where d, bo; HS UUF (as bod, bo); initial begin a=0; b=0; a=0; b=1; #10 a=1; b=0; #10 . a=1; b=1; #10 end "