Fri Feb 12 15:08:16 2016

```
1
     -- Name: Capt Jeff Falkinburg
 3
   -- Date: Spring 2016
 4
     -- Course: ECE 281
    -- File: ce2 half adder.vhd
 5
    -- HW: Lecture 13
    -- Purp: Half Adder - Behavioral Implementation.
 7
 8
 9
    -- Doc: None
    -- Academic Integrity Statement: I certify that, while others may have
10
     -- assisted me in brain storming, debugging and validating this program,
11
12
     -- the program itself is my own work. I understand that submitting code
13
    -- which is the work of other individuals is a violation of the honor
     -- code. I also understand that if I knowingly give my original work to
14
15
     -- another individual is also a violation of the honor code.
16
17
18
     library IEEE;
19
     use IEEE.STD_LOGIC_1164.ALL;
20
    entity ce2 half adder is
21
22
         Port ( A : in STD LOGIC;
23
                B : in STD_LOGIC;
                S : out STD LOGIC;
24
                Cout : out STD LOGIC);
25
26
     end ce2 half adder;
27
28
     architecture Behavioral of ce2 half adder is
29
30
    begin
31
      S \ll A \times S
        Cout <= A and B;
32
33
34
    end Behavioral;
35
36
```