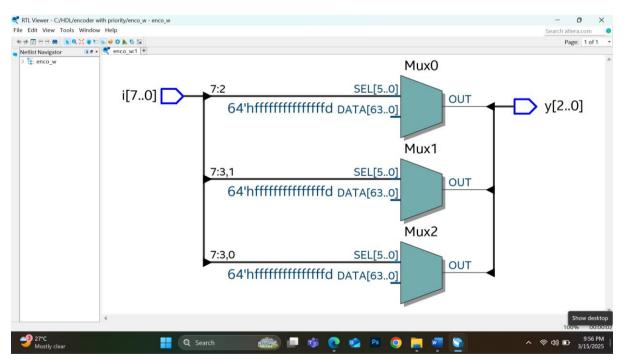
```
C.Y.S.: BSCpE - 3A
The CODE:
library IEEE;
use IEEE.STD_LOGIC_1164.ALL;
use IEEE.STD_LOGIC_ARITH.ALL;
use IEEE.STD_LOGIC_UNSIGNED.ALL;
entity enco_w is
  Port (i:in STD_LOGIC_VECTOR (7 downto 0);
     y: out STD_LOGIC_VECTOR (2 downto 0));
end enco_w;
architecture Behavioral of enco_w is
begin
with i select
y<="000" when "00000111",
"001" when "00000110",
"010" when "00000101",
"011" when "00000100",
"100" when "00000011",
"101" when "00000010",
"110" when "00000001",
"111" when others;
end Behavioral;
```

Name: Richard Raymond J. Canda

```
            enco w.vhd
                                          Compilation Report - enco w
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 1
      library IEEE;
 2
      use IEEE.STD_LOGIC_1164.ALL;
 3
     use IEEE.STD_LOGIC_ARITH.ALL;
 4
     use IEEE.STD_LOGIC_UNSIGNED.ALL;
 5
    ⊟entity enco_w is
 6
          Port ( i : in STD_LOGIC_VECTOR (7 downto 0);
 7
                   y : out STD_LOGIC_VECTOR (2 downto 0)):
    Lend enco_w;
 8
 9
    □architecture Behavioral of enco_w is
10
    ⊟begin
     with i select
y<="000" when "00000111",
"001" when "00000110",
"010" when "00000101",
11
12
13
14
      "011" when "00000100".
15
      "100" when "0000011",
16
     "101" when "00000010",
17
     "110" when "00000001",
"111" when others;
18
19
20
      end Behavioral;
```

## The LOGIC GATE:



## The WAVEFORM:

