

ENCODER WITH PRIORITY

```
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 en_wpriority is
6  Port ( i : in  STD_LOGIC_VECTOR (7 downto 0);
7        y : out  STD_LOGIC_VECTOR (2 downto 0));
8  end en_wpriority;
9  architecture Behavioral of en_wpriority is
10 begin
11   with i select
12   y<="000" when "00000111",
13   "001" when "00000110",
14   "010" when "00000101",
15   "011" when "00000100",
16   "100" when "00000011",
17   "101" when "00000010",
18   "110" when "00000001",
19   "111" when others;
20 end Behavioral;
```



