2-bit COMPARATOR

```
library IEEE;
 1 2
       use IEEE.STD_LOGIC_1164.ALL;
      use IEEE.STD_LOGIC_ARITH.ALL;
use IEEE.STD_LOGIC_UNSIGNED.ALL;
 3
 4
     Entity comp is
Port (a,b
 5
 6
           Port ( a,b : in STD_LOGIC_VECTOR (1 downto 0);
 7
                     y : out STD_LOGIC_VECTOR (2 downto 0));
      Lend comp;
 8
 9
       architecture Behavioral of comp is
     ⊟begin
10
     y<= "100" when a>b else
"001" when a<b else
"010" when a=b;
11
12
13
14
       end Behavioral;
```



