## MULTIPLEXER

```
library IEEE;
      use IEEE.STD_LOGIC_1164.ALL;
 2
      use IEEE.STD_LOGIC_ARITH.ALL;
use IEEE.STD_LOGIC_UNSIGNED.ALL;
 3
 4
 5
     mentity multiplexer is
 6
           Port ( d : in STD_LOGIC_VECTOR (7 downto 0);
 7
                   s : in STD_LOGIC_VECTOR (2 downto 0);
                   f : out STD_LOGIC);
 8
 9
     Lend multiplexer;
      architecture Behavioral of multiplexer is
10
     ⊟begin
11
      f \le d(0) when s = "000" else
12
      d(1) when s="001" else
13
      d(2) when s="010" else
14
      d(3) when s="011" else
15
      d(4) when s="100" else
16
     d(5) when s="101" else
d(6) when s="110" else
d(7) when s="111";
17
18
19
20
      end Behavioral;
```



