

```
1  library ieee;
2  use ieee.std_logic_1164.all;
3  use ieee.numeric_std.all;
4
5  entity red is
6      port(
7          red_in : in std_logic_vector(31 downto 0);
8          red_out : out unsigned(7 downto 0));
9  end red;
10
11 architecture behavior of red is
12     begin
13         red_out <= unsigned(red_in(7 downto 0));
14     end behavior;
15
16
```