VHDL Coding Format of ***ni2designs***

```
--------------------------------------------------------------------------------
-- Title                   : VHDL Coding Style
-- Project                 : Sample code
-- File                    : VHDL_Coding_Style.vhd
--------------------------------------------------------------------------------
-- Organization            : ni logic Pvt. Ltd., Pune, India
--------------------------------------------------------------------------------
-- Description             : D F/F with both O/Ps
--------------------------------------------------------------------------------
-- Notes                   : To demonstrate and Standardized
--                           VHDL coding style "ni2designs"
--------------------------------------------------------------------------------
library IEEE;
use IEEE.STD_LOGIC_1164.ALL;
use IEEE.STD_LOGIC_ARITH.ALL;
use IEEE.STD_LOGIC_UNSIGNED.ALL;
--------------------------------------------------------------------------------
entity coding is
generic(rst_state:std_logic:='1');          -- Active HIGH Reset
    Port ( rst : in std_logic;              -- reset
           clk : in std_logic;              -- clock
           d   : in std_logic;              -- data I/P
           q,q_bar : out std_logic);  -- Q and Q bar O/Ps
end coding;
--------------------------------------------------------------------------------
architecture Behavioral of coding is
signal q_s : std_logic;                     -- define internal signals here &
                                            -- name them according to their function
begin
--------------------------------------------------------------------------------
------------------- Process for storing Data --------------------------
process(rst,clk)
begin
if(rst = rst_state)then
           q_s      <= '0'
elsif( clk'event and clk ='1')then
           q_s      <= d;
end if;
end process;
--------------------------------------------------------------------------------

q          <= q_s;

q_bar      <= not q_s;

end Behavioral;
```

Note: For ni2 designers, put notes as much as possible, but don't create mess. And submit updated source file to your project manager.