```
-- Clock period definitions
   CONSTANT clk period : time := 1 us;
-- Clock process definitions
   clk process : process
  begin
--CLK <= NOT CLK AFTER clk_period/2;
       CLK <= '0';
        wait for clk_period/2;
        CLK <= '1';
        wait for clk period/2;
    end process;
  tb : PROCESS (CLK)
   variable sh one : integer := 0 ;
   BEGIN
      if CLK='1' then
         sh one := (sh one + 1) mod 8;
         CASE sh_one is
           WHEN 0 =>
               SW <= "00000001" ;
               SW <= "111111110" after clk period/2;
           WHEN 1 \Rightarrow
               SW <= "00000010";
               SW <= "111111101" after clk_period/2;</pre>
           WHEN 2 =>
               SW <= "00000100" ;
               SW <= "111111011" after clk period/2;
           WHEN 3 =>
               SW <= "00001000" ;
               SW <= "11110111" after clk_period/2;</pre>
           WHEN 4 =>
               SW <= "00010000" ;
               SW <= "11101111" after clk period/2;
           WHEN 5 =>
               SW <= "00100000";
               SW <= "110111111" after clk period/2;
           WHEN 6 =>
               SW <= "01000000";
               SW <= "101111111" after clk_period/2;</pre>
           WHEN others =>
               SW <= "10000000";
               SW <= "01111111" after clk period/2;
          END CASE;
        END if ;
   END PROCESS tb;
```