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-- VHDL Architecture Bachelor.memory_to_process.student
--
-- Created:
--          by - christop.grobety.UNKNOWN (WE2332207)
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--
-- using Mentor Graphics HDL Designer(TM) 2019.2 (Build 5)
--
LIBRARY Common;
  USE Common.CommonLib.all;
ARCHITECTURE student OF memory_to_process IS
  signal count: unsigned((memory_size-1) downto 0);
  signal count_memory: unsigned((memory_size-1) downto 0);
  signal start_bit: std_uLogic;
  signal stmClk_old: std_uLogic;
  signal MISO_OUT: std_ulogic;
  signal done_int: std_uLogic := '0';
BEGIN
  sendAdd : process(reset, clock)
  begin
    if reset = '1' then
      start_bit <= '0';
      MISO_OUT <= '0';
      stmClk_old <= stmClk;
      count_memory <= "1000000000000000001";
      count <= (others => '0');
    elsif rising_edge(clock) then

      stmClk_old <= stmClk;
      if m = "1011" then
        if stmClk='1' and stmClk_old = '0' then
          MISO_OUT <= count_memory(count_memory'HIGH);
          count_memory <= SHIFT_LEFT(count_memory,1);
        end if;
      else
        count_memory <= memoryAdd;

        -- React on rising_edge(stmClk)
        --if stmClk='1' and stmClk_old = '0' then
          --MISO_OUT <= not MISO_OUT;
        --end if;
      end if;
    end if ;
  end process sendAdd;

  MISO <= MISO_OUT;
END ARCHITECTURE student;
```