```
    library IEEE;

 2. use IEEE.STD_LOGIC_1164.ALL;
 use IEEE.NUMERIC_STD.ALL;
 5. entity sekunti_laskuri is
 6.
          port (
 7.
                    clk : in STD_LOGIC;
 8.
                    led : out STD_LOGIC_VECTOR(6 downto 0)
9.
          );
10. end sekunti_laskuri;
11.
12.
13.
14. architecture behavioral of sekunti_laskuri is
          signal clk_counter : unsigned(25 downto 0) := (others => '0');
15.
          signal sec_counter : unsigned(6 downto 0) := (others => '0');
16.
          constant MAX_COUNT : unsigned(25 downto 0) := to_unsigned(49999999, 26);
17.
18. begin
19.
20. process(clk)
21. begin
22.
        if rising_edge(clk) then
23.
            clk_counter <= clk_counter + 1;</pre>
24.
25.
            if clk counter = MAX COUNT then
                clk_counter <= (others => '0');
26.
27.
                                        sec_counter <= sec_counter + 1;</pre>
28.
                if sec_counter = "1111111" then
29.
30.
                    sec_counter <= (others => '0');
31.
32.
                end if;
33.
            end if;
34.
        end if;
35. end process;
36.
37.
38.
          led <= std_logic_vector(sec_counter);</pre>
39.
40. end behavioral;
```

demo:

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