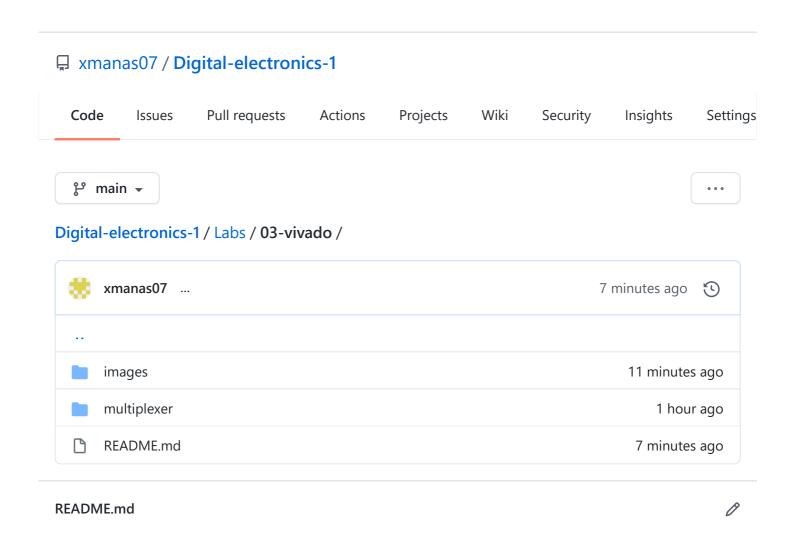


Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

Read the guide



Digital-electronics-1

úkol 1: Table with connection of 16 slide switches and 16 LEDs

LED Connection	Switch	Connection
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LED	Connection	Switch	Connection
LED0	H17	SW0	J15
LED1	K15	SW1	L16
LED2	J13	SW2	M13
LED3	N14	SW3	R15
LED4	R18	SW4	R17
LED5	V17	SW5	T18
LED6	U17	SW6	U18
LED7	U16	SW7	R13
LED8	V16	SW8	Т8
LED9	T15	SW9	U8
LED10	U14	SW10	R16
LED11	T16	SW11	T13
LED12	V15	SW12	Н6
LED13	V14	SW13	U12
LED14	V12	SW14	U11
LED15	V11	SW15	V10

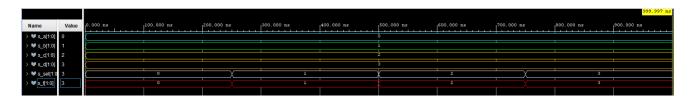
úkol 2: 2bit wide 4-to-1 multiplexer

VHDL architecture (mux_2bit_4to1.vhd)

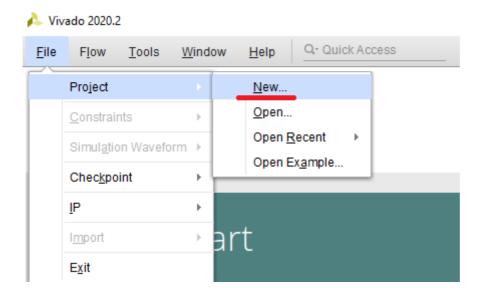
VHDL stimulus proces (tb_mux_2bit_4to1.vhd)

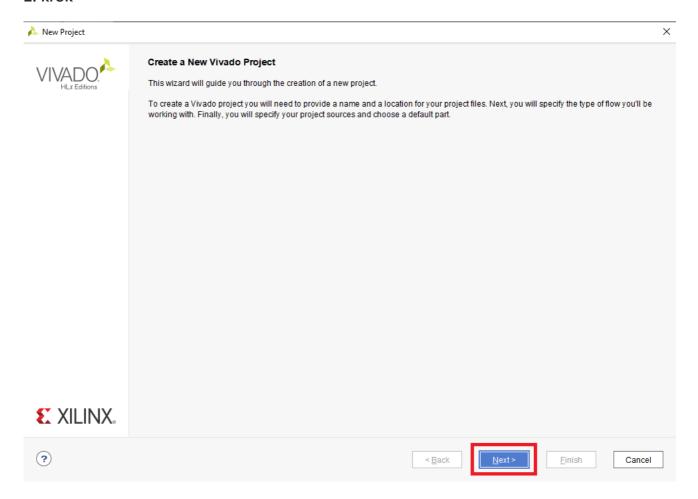
```
p_stimulus : process
begin
     -- Report a note at the begining of stimulus process
     report "Stimulus process started" severity note;
     s_a <= "00"; s_b <= "01"; s_c <= "10"; s_d <= "11"; s_sel <= "00";
     wait for 250 ns;
     s_a <= "00"; s_b <= "01"; s_c <= "10"; s_d <= "11"; s_sel <= "00";
     s_sel <= "01";
     wait for 250 ns;
     s_a <= "00"; s_b <= "01"; s_c <= "10"; s_d <= "11"; s_sel <= "00";
     s_sel <= "10";
    wait for 250 ns;
     s_a <= "00"; s_b <= "01"; s_c <= "10"; s_d <= "11"; s_sel <= "00";
     s_sel <= "11";
    wait for 250 ns;
     report "Stimulus process finished" severity note;
     wait;
end process p_stimulus;
```

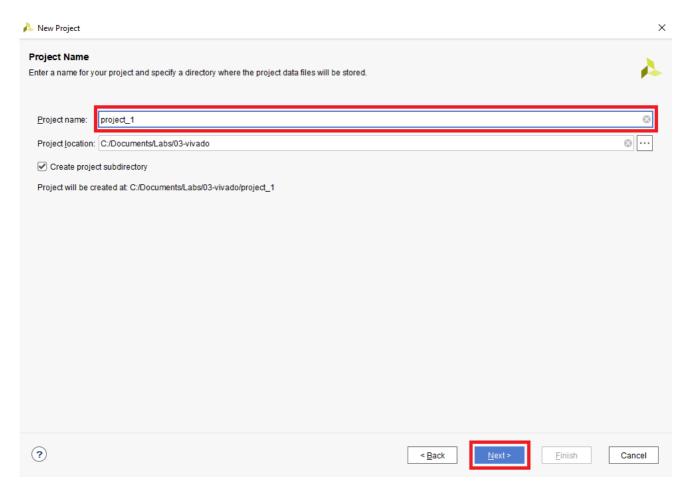
Screenshot with waveforms

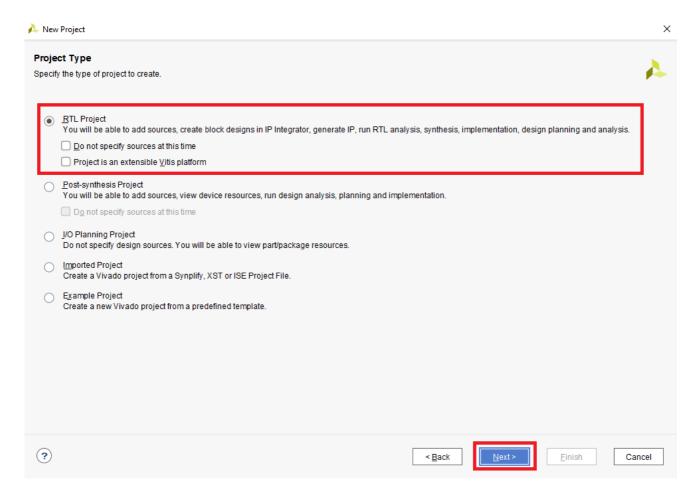


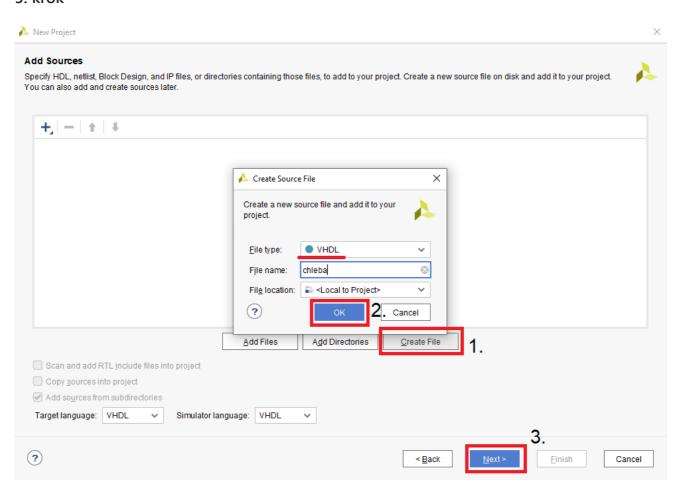
úkol 3: Vivado tutorial

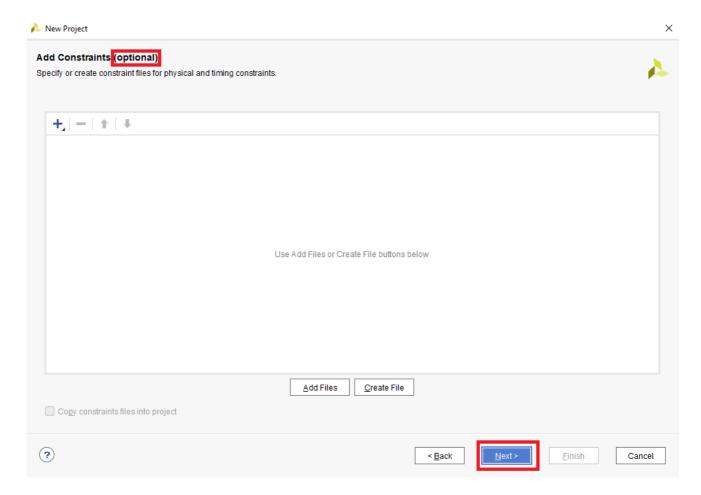


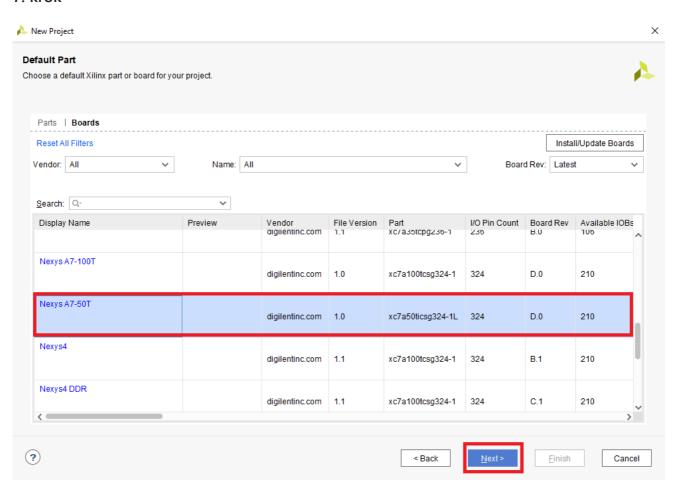


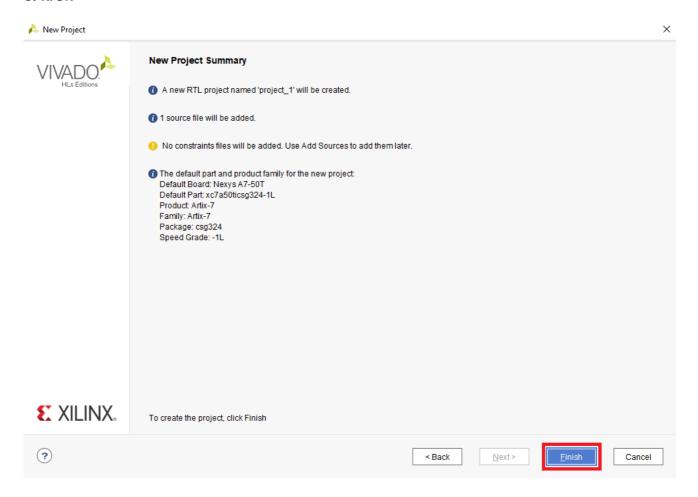












9. krok

