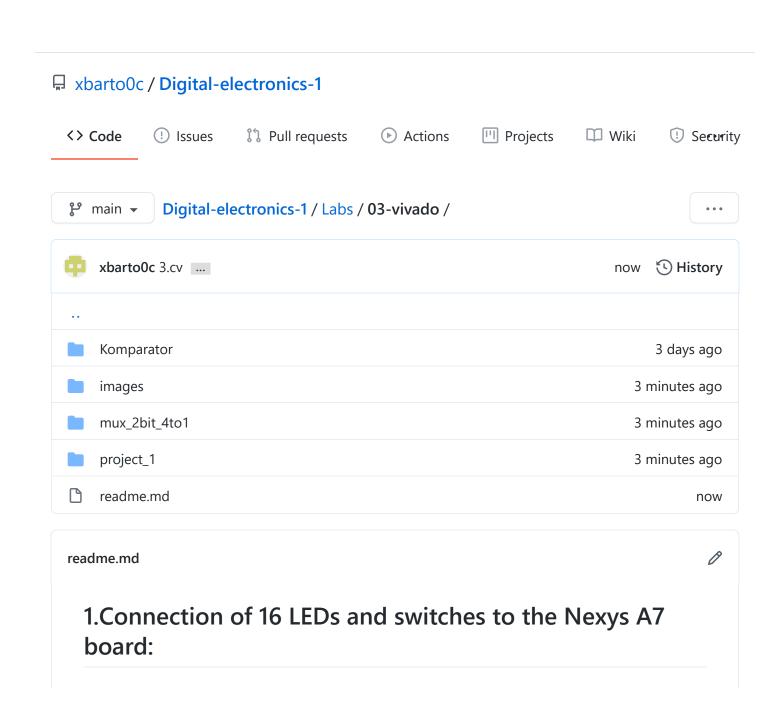


# Learn Git and GitHub without any code!

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

Read the guide



Pin name:	Pin name on the board :
LED0	H17
LED1	K15
LED2	J13
LED3	N14
LED4	R18
LED5	V17
LED6	U17
LED7	U16
LED8	V16
LED9	T15
LED10	U14
LED11	T16
LED12	V15
LED13	V14
LED14	V12
LED15	V11
SW0	J15
SW1	L16
SW2	M13
SW3	R15
SW4	R17
SW5	T18
SW6	U18
SW7	R13
SW8	Т8

Pin name:	Pin name on the board :
SW9	U8
SW10	R16
SW11	T13
SW12	H6
SW13	U12
SW14	U11
SW15	V10

# 2.Two-bit wide 4-to-1 multiplexer

#### Multiplexer architecture code:

#### Multiplexer stimulus process code:

```
p_stimulus : process
begin
    -- Report a note at the begining of stimulus process
    report "Stimulus process started" severity note;

-- First test values
    s_a <= "00";s_b <= "01";s_c <= "11"; s_d <= "10";
    s_sel <= "00"; wait for 100 ns;

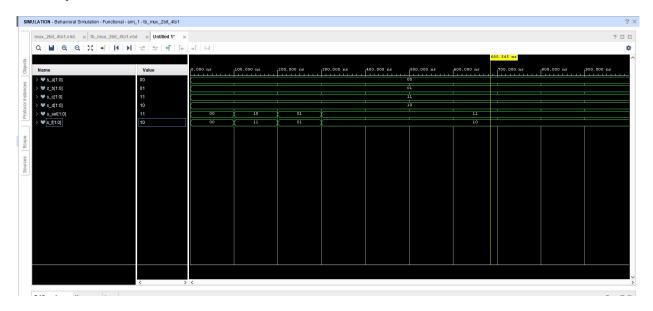
s_a <= "00";s_b <= "01";s_c <= "11"; s_d <= "10";
    s_sel <= "10"; wait for 100 ns;</pre>
```

```
s_a <= "00";s_b <= "01";s_c <= "11"; s_d <= "10";
s_sel <= "01"; wait for 100 ns;

s_a <= "00";s_b <= "01";s_c <= "11"; s_d <= "10";
s_sel <= "11"; wait for 100 ns;

report "Stimulus process finished" severity note;
wait;
end process p_stimulus;</pre>
```

#### Multiplexer simulation screenshot:

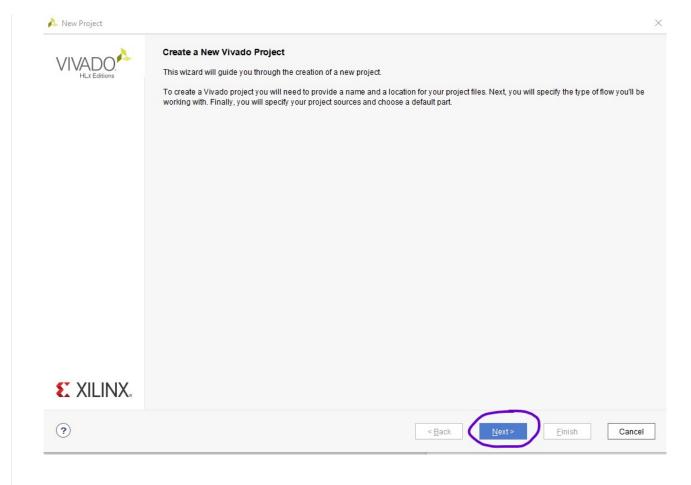


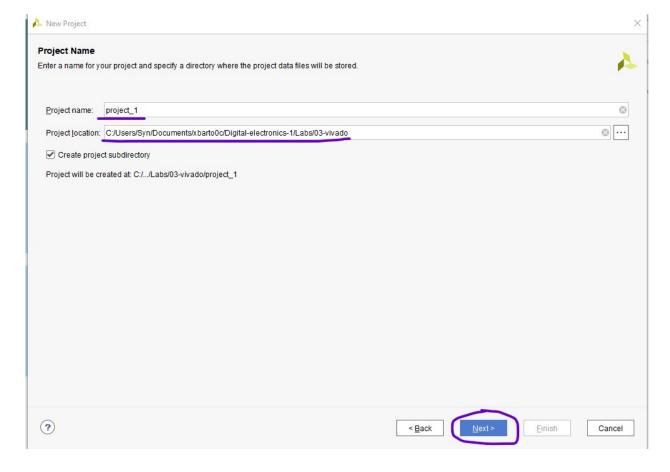
## 3. Vivado basics tutorial:

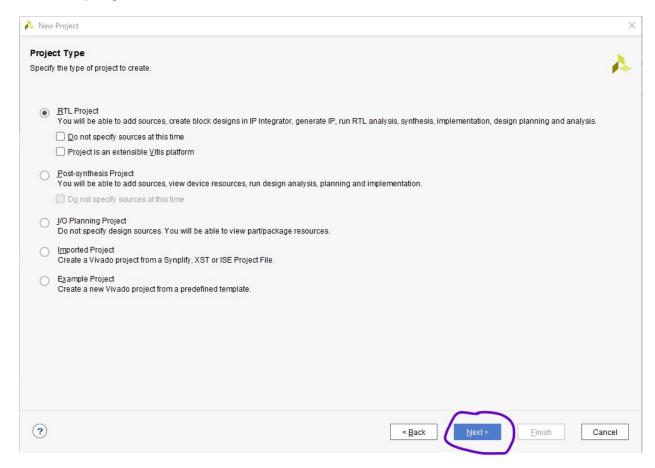
#### **Creating project:**



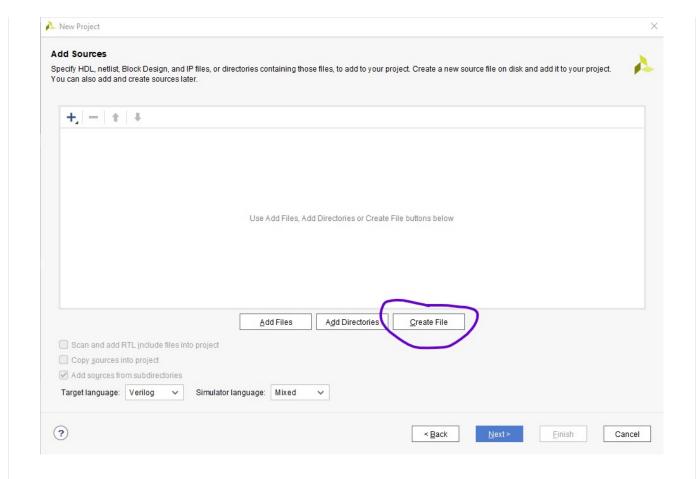
#### **Create project:**

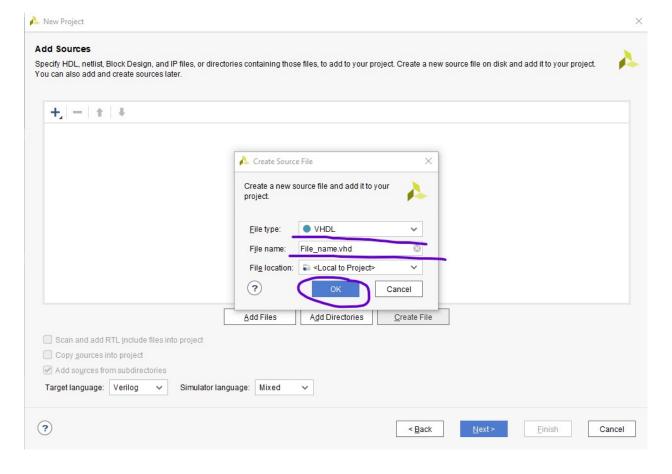


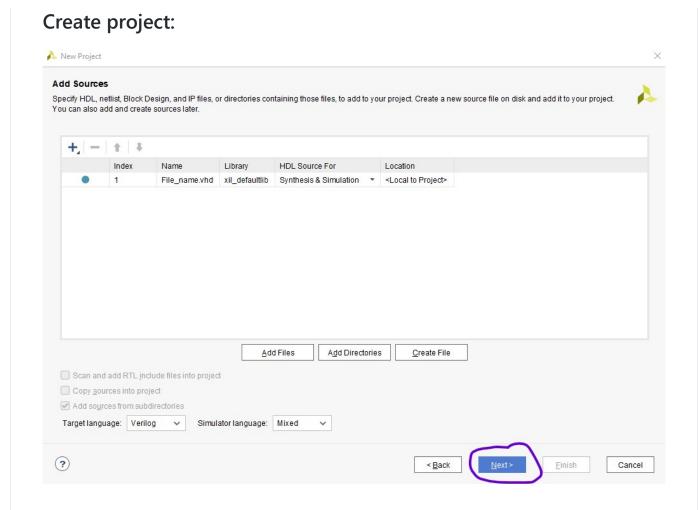


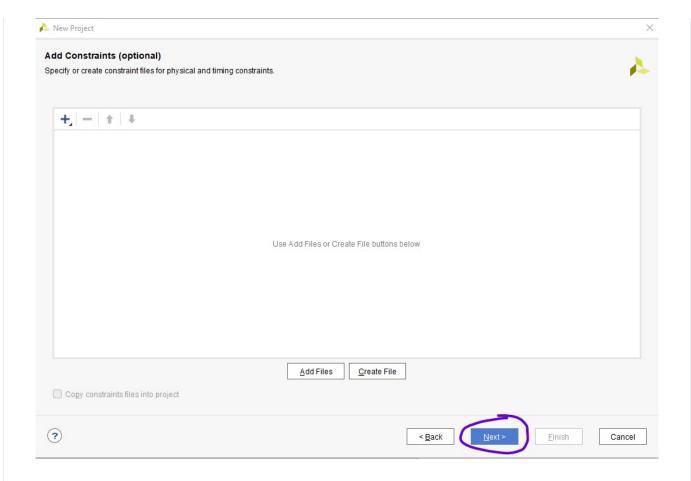


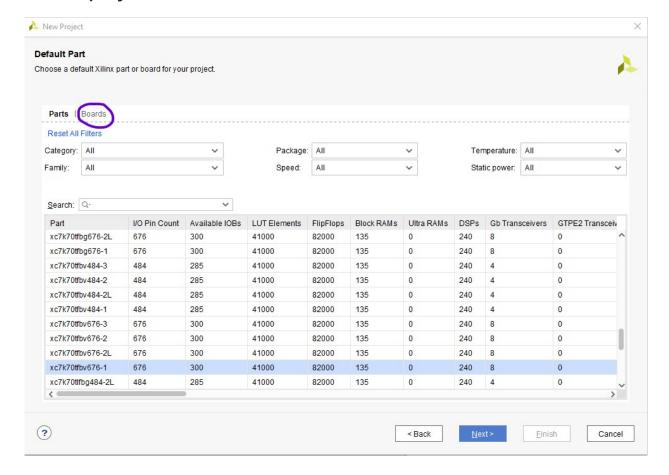
Create project:

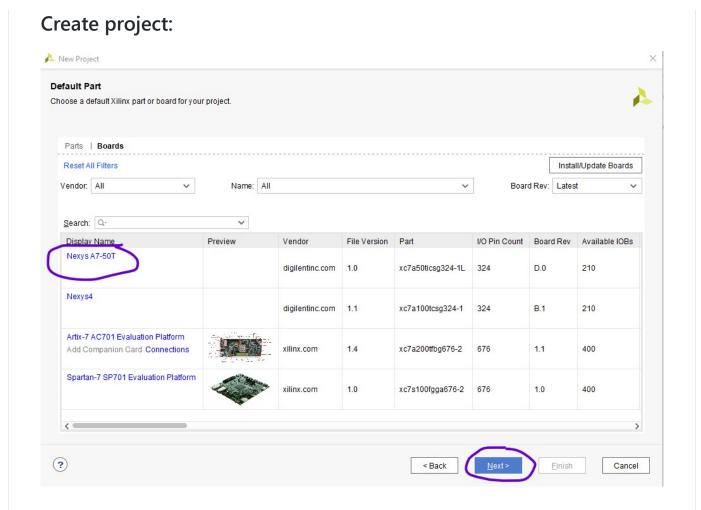


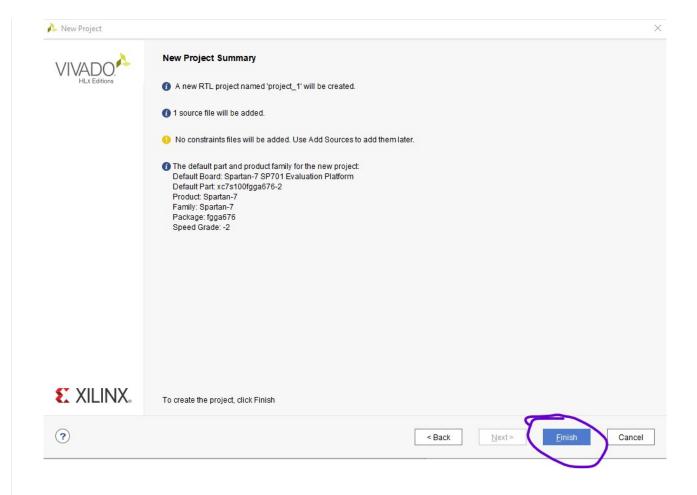




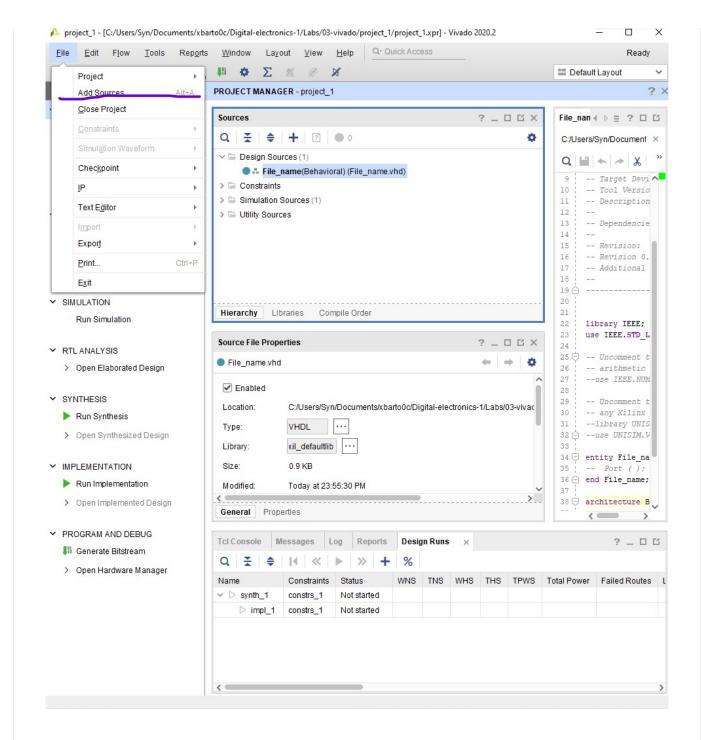




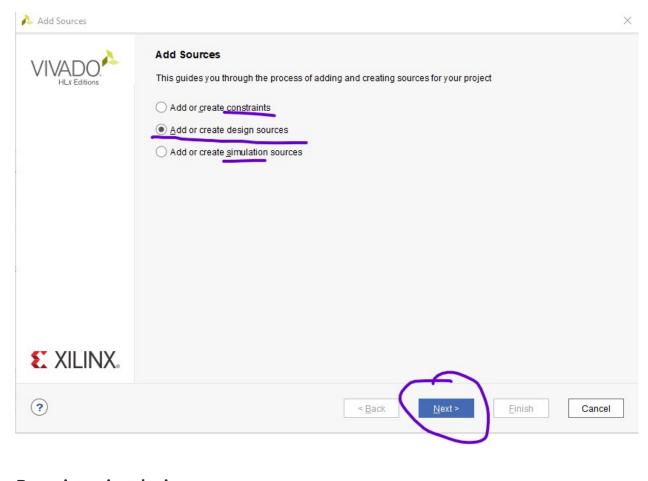




Adding source file, testbench file or XDC file:



Adding source file, testbench file or XDC file:



## **Running simulation:**

