KeyBoard Application

Design Description

- It is an example of PS2 keyboard application.
- It takes numbers from keyboard and displays them on 4 digits seven segment display

Hierarchy of keyBoardApp

keyBoardApp

ps2_rx

SevenSegFour DigwithEnable

keyBoardCore

key2Binary

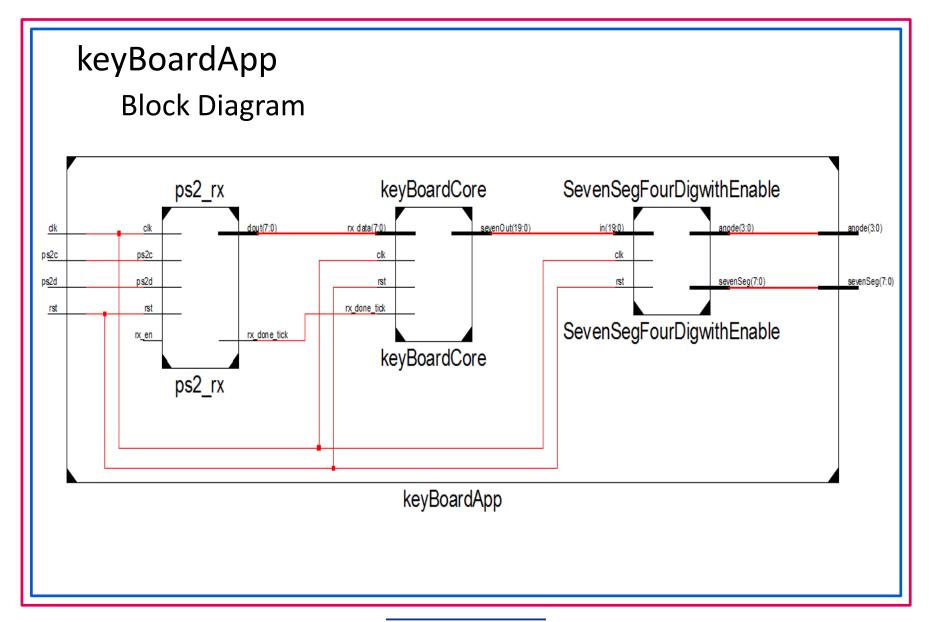
Top module of the design and it only contains instantiation of the other modules. You will use existing code for this module.

This module is receiver circuit of PS2 protocol from the course book. You will use existing code for this module.

4 digits seven segments driver circuit. You will use existing code for this module.

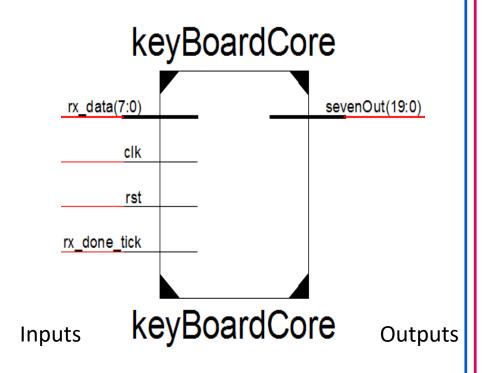
You will write this module to take data from keyboard and send to seven segments displays.

Converts keyboard code to binary code. You will use existing code for this module



Inputs and Outputs of keyBoardCore

- Rx_done_tick is an enable signal that says us data is ready on rx_data port.
- sevenOut goes to sevenSegments driver unit. Each 5 bits out of 20 of it is responsible to a single digit seven segments. So there is 4 digits.



Design Description of keyBoardCore

