Lab Report

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Introduction

The goal of this lab will be to create a baseline design that interfaces with some external interfaces and provide a baseline design for the remainder of the course. We will be making use of the Buttons, Switches, and LEDs on the FPGA development boards.

Equipment Used

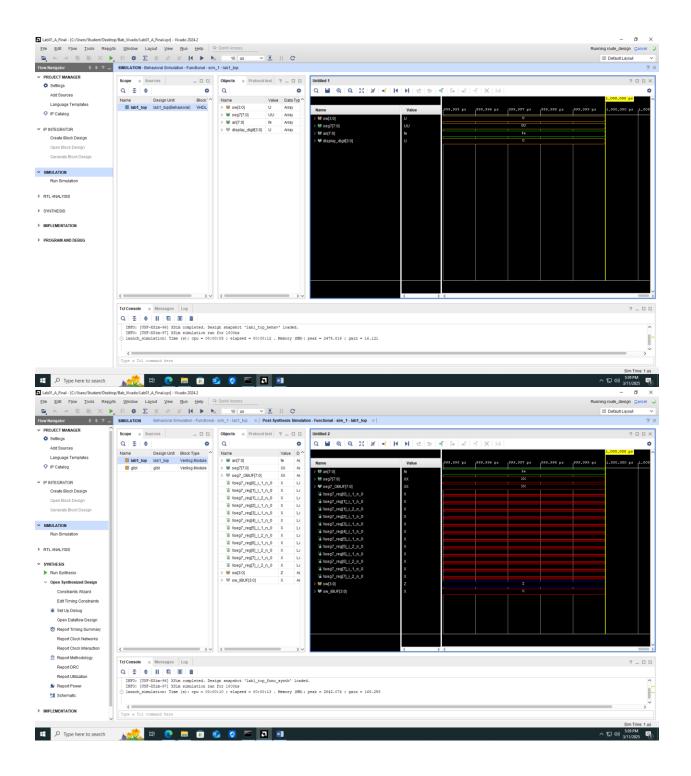
Xilinix board (Nexys A7)

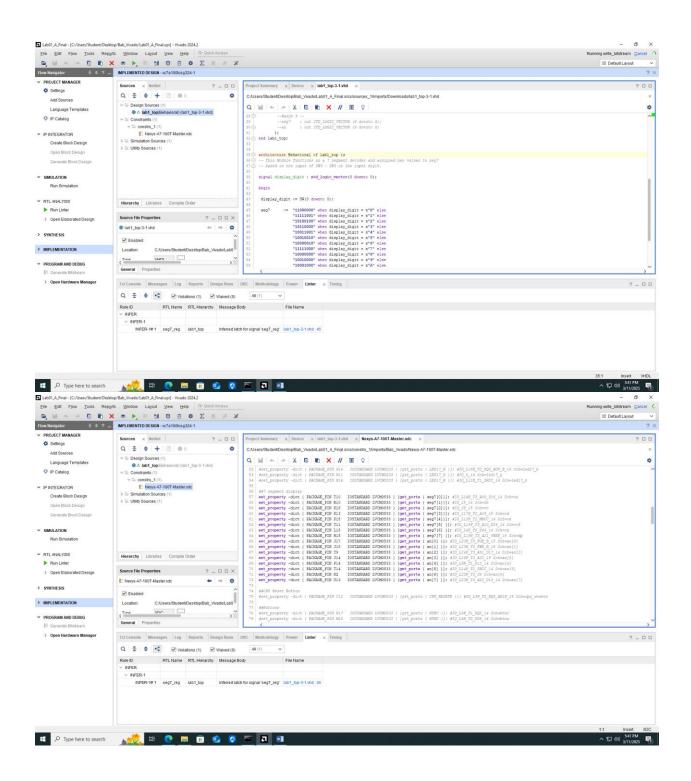
Procedure

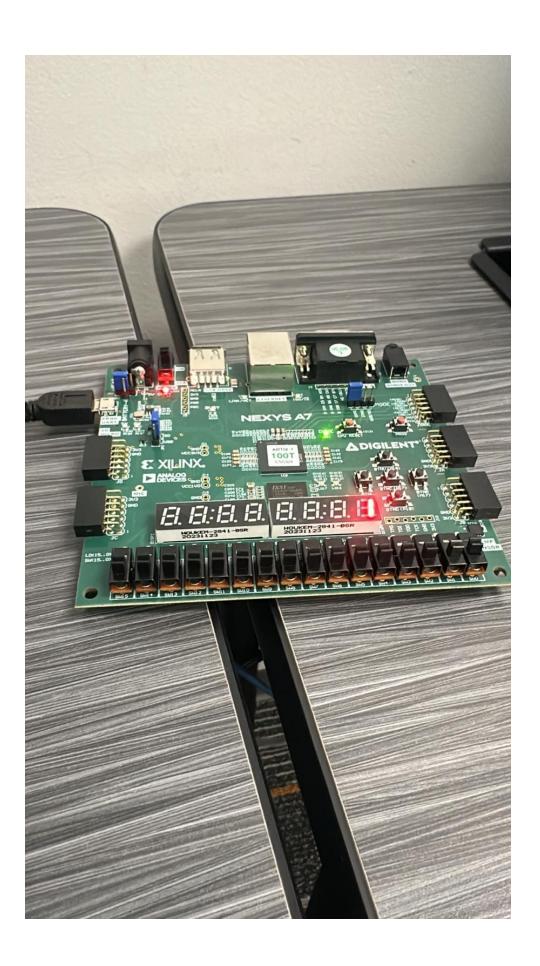
- 1) Downloading Vivado
- 2) Downloading diligent Board files
- 3) Creating a Vivado Project
- 4) Adding VHDL
- 5) Assigning pins
- 6) Vivado Design Flow
 - a. Run Synthesis
 - b. Run Implementation
 - c. Generate Bitatream
- 7) Programing FPGA
- 8) Hardware Board Setup (Xilinix) and programing the device

Results

Here the results of the lab. Including the graphs or pictures or the like depicting or showcasing Lab's results.







Conclusion

The Objective of the Lab was met the program was run on hardware as well with the successful out put.