Lab 1 Report:

From Exercise #1:

1. Compilation report for the Rhody computer system (basic CPU):
   - Logic utilization (in ALMs) 2350 / 32,070 (7 %)
   - Total block memory bits 3,227,712 / 4,065,280 (79 %)
   - Total DSP Blocks 9 / 87 (10 %)
2. Compilation report for the Rhody computer system (pipelined CPU):
   - Logic utilization (in ALMs) 2,500 / 32,070 (8 %)
   - Total block memory bits 3,227,712 / 4,065,280 (79 %)
   - Total DSP Blocks 9 / 87 (10 %)
3. Compilation report for the Rhody computer system (pipelined CPU with BP):
   - Logic utilization (in ALMs) 2,757 / 32,070 (8 %)
   - Total block memory bits 3,227,712 / 4,065,280 (79 %)
   - Total DSP Blocks 9 / 87 (10 %)

From Assignments:

1. Using Rhody basic CPU (Rhody_System_basic.sof)
   - ❖ Runtime of system function "circle": 3554 µs
   - ❖ Runtime of system function "scircle": 317946 µs
2. Using Rhody CPU with pipeline (Rhody_System_pipe.sof)
   - ❖ Runtime of system function "circle": 3224 µs
   - ❖ Runtime of system function "scircle": 294,506 µs
3. Using Rhody CPU with pipeline and branch prediction (Rhody_System_pipe_BP.sof)
   - ❖ Runtime of system function "circle": 3139 µs
   - ❖ Runtime of system function "scircle": 280510 µs

Grade: _____

Assignment Verified by: _____