

Assignment 2, sama as assignment 1 (2022-12-19)

1. Design a single-cycle processor supporting MIPS **add, addi** instructions in Verilog HDL. Please download [proc01.v](#) from the support page and refer to it.
2. Verify the behavior of designed processor using following assembly code
 - add \$0, \$0, \$0 # {6'h0, 5'd0, 5'd0, 5'd0, 5'd0, 6'h20}
 - addi \$7, \$0, 3 # {6'h8, 5'd0, 5'd7, 16'd3}
 - addi \$8, \$0, 5 # {6'h8, 5'd0, 5'd8, 16'd5}
 - add \$9, \$7, \$8 # {6'h0, 5'd7, 5'd8, 5'd9, 5'd0, 6'h20}
3. Submit **a report printed on A4 paper** at the beginning of the next lecture on Monday. Or,
Submit **your report in a PDF file** via E-mail (kise [at] c.titech.ac.jp) by the beginning of the next lecture on Monday.
 - The report should include a block diagram, a source code in Verilog HDL, and obtained waveforms of your design.

