Insert this transcript on "transcript" tab on ModelSim. Don't forget to plug the outputs: "HEX(1)", "HEX(0)", "LEDR", and inputs: "SW", "KEY(0)", "KEY(1)", "CLOCK".

This transcript is capable of using the SUM and then the SHIFT RIGHT operation of the calculator.

**00** represents the SUM operation, so notice that **00** 00110001 + **00** 00100000 becomes 00 0001010001. Afterwards, notice that **11** represents the SHIFT RIGHT operation and that **11** 01001001 becomes 00 00100100.

restart -f -nolist -nolog -nobreak -novirtuals -noassertions -nofcovers -noatv

force -freeze sim:/top\_calc/CLOCK 1 0, 0 {5 ps} -r 10

force -freeze sim:/top\_calc/KEY(0) 0 10

force -freeze sim:/top\_calc/KEY(1) 0 10

force -freeze sim:/top\_calc/KEY(0) 1 20

force -freeze sim:/top\_calc/KEY(1) 0 20

force -freeze sim:/top\_calc/KEY(1) 1 30

force -freeze sim:/top\_calc/SW 0000110001 40

force -freeze sim:/top\_calc/KEY(1) 0 40

force -freeze sim:/top\_calc/SW 0000100000 50

force -freeze sim:/top\_calc/KEY(0) 0 80

force -freeze sim:/top\_calc/KEY(1) 0 80

force -freeze sim:/top\_calc/KEY(0) 1 90

force -freeze sim:/top\_calc/KEY(1) 0 90

force -freeze sim:/top\_calc/KEY(1) 1 100

force -freeze sim:/top\_calc/SW 1101001001 110