CA Lab – Q – Batch – 23.05.2023

1. Draw the single cycle datapath with control for sw $t4, 40($s0)
2. Show the pipeline timing diagram for the execution of the following instruction sequence, considering the hazards and the possible solutions.

    40 lw $4, 50($7)

    44 and $12, $4, $5

    48 or $13, $12, $2

    52 add $14, $2, $2

    72 sw $14, 50($7)

3. Draw the pipelined datapath for handling load-use hazard.