



King Saud University
College of Computer and Information Sciences
Department of Computer Science

CSC 220: Computer Organization

Labwork – 8

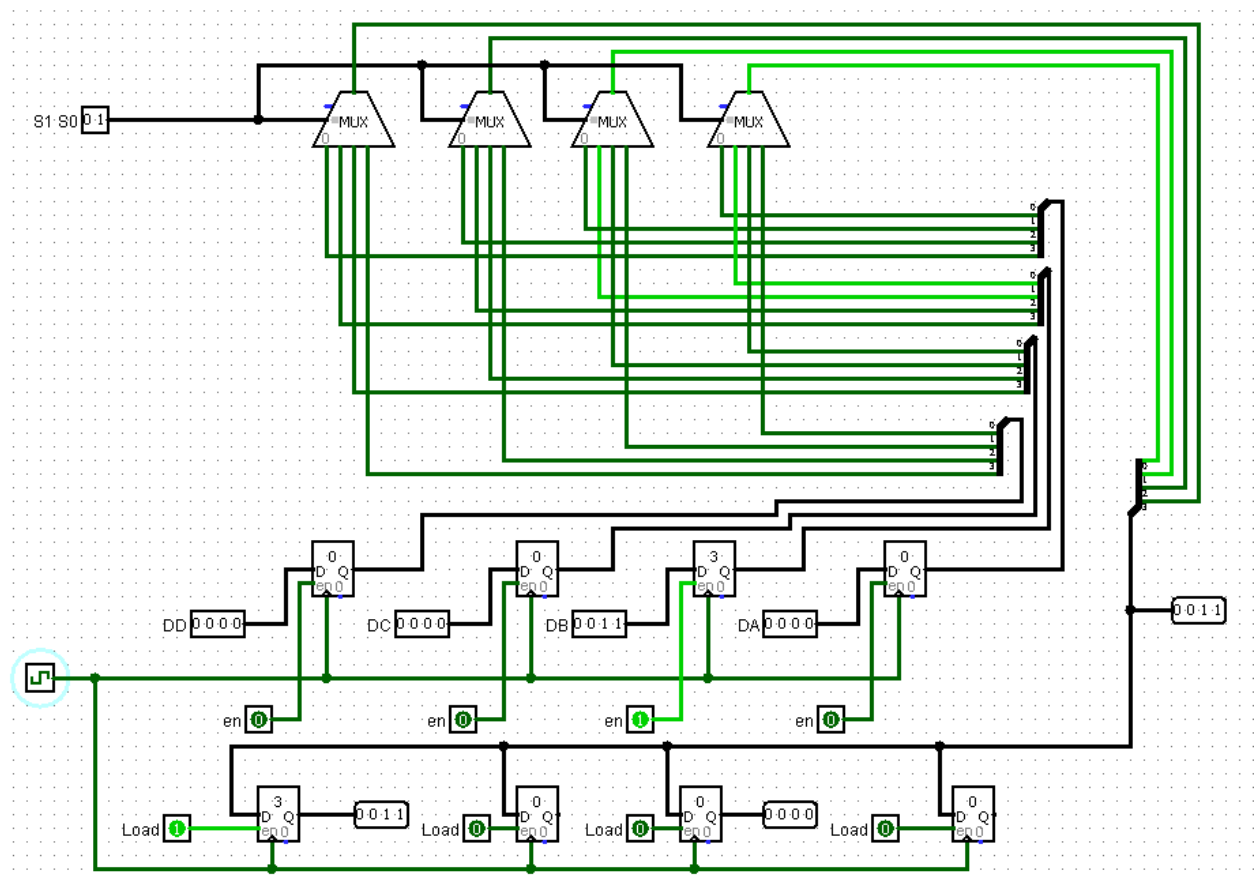
Name : mohannad alshahrani

Id: 442100744

1. Introduction

In this section you write the introduction about this lab. You should describe the objectives in details. In this lab, we are learning about registers and how they store data in digital circuits. Registers are important because they hold data temporarily, allowing us to use and control it in circuits. In this experiment, we used Logisim to build a circuit with multiple registers

2. Experiments



3. Results

You should give the results of each experiment. You may use the truth table to verify the circuits you designed.

4. Discussion

In this section you should discuss what you have learnt in this lab and write your conclusions. I learned how registers store and transfer data based on control signals. By experimenting with the "enable" and "load" signals, I saw how we can control when data is stored in each register. The multiplexers in the circuit made it possible to choose specific inputs for each register, showing how data can be selected and stored in different places.