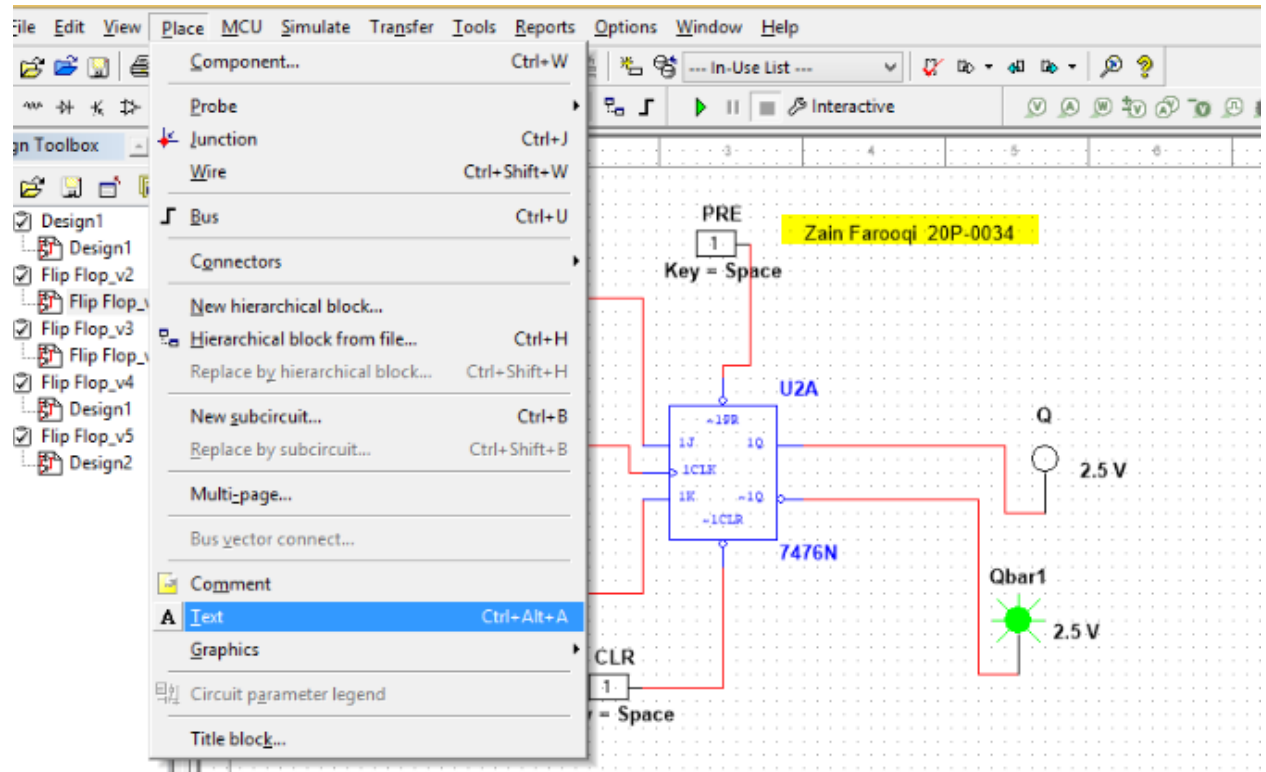


# EL227- Digital Logic Design Lab

## Lab # 13 Register

- Use **Multism/Logicy** to design circuit diagrams.
- **Label your inputs and outputs properly.**
- **Note:** Attach your name and roll no with each screen shot of circuit as shown below. Otherwise your lab task would not be accepted.



1. Test the functionality of T flip flop using IC-74LS76.
2. Implement the Serial In – Serial Out Shift Register and observe the working of 4-bit SISO shift register by sending the binary information “1011” from LSB to MSB serially at the input.
3. Implement the Serial In – Parallel Out Shift Register and observe the working of 4-bit SISO shift register by sending the binary information “1001” from LSB to MSB serially at the input.

- Implement the Parallel In – Serial Out Shift Register and observe the working of 3-bit SISO shift register by sending the binary information “010” using the following Circuit as shown below.

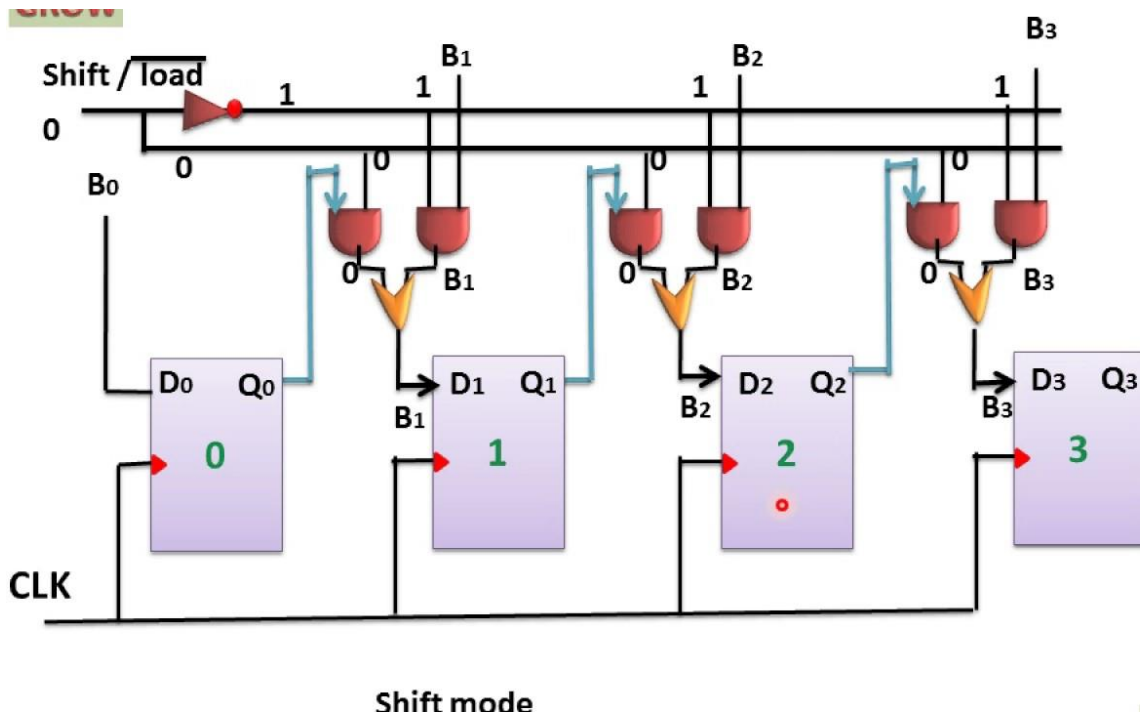


Figure 1 PISO