

CME1214 Logic Design

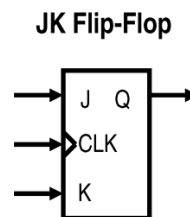
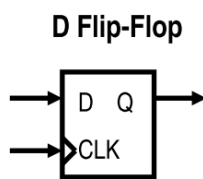
Experiment 4

1. Frequency Divider Circuit

Build frequency dividers, divide-by-2 and divide-by-4 circuit using

- D Flip Flops
- JK Flip Flops

You should build 4 circuits in total.



Preliminary Work

Draw truth tables and logic diagrams of the designs.
Construct and test the designed circuits in Quartus II.

Equipments

D Flip Flop (74LS74), JK Flip Flop (74LS76)
Other necessary ICs such as OR, AND, NOT
Breadboard, connection cables

See the Instructions at the end of the document.

Instructions:

- You should only one “pdf” file that contains both **your prelab screenshots** and **photos of experiments**.
- The file path of your screenshots** should be **visible**, otherwise your work won't get any point.
- Your student card** should in **the photos of the experiments**, otherwise your work won't get any point.

Your “pdf” file name should be “studentNo_name_surname.pdf”