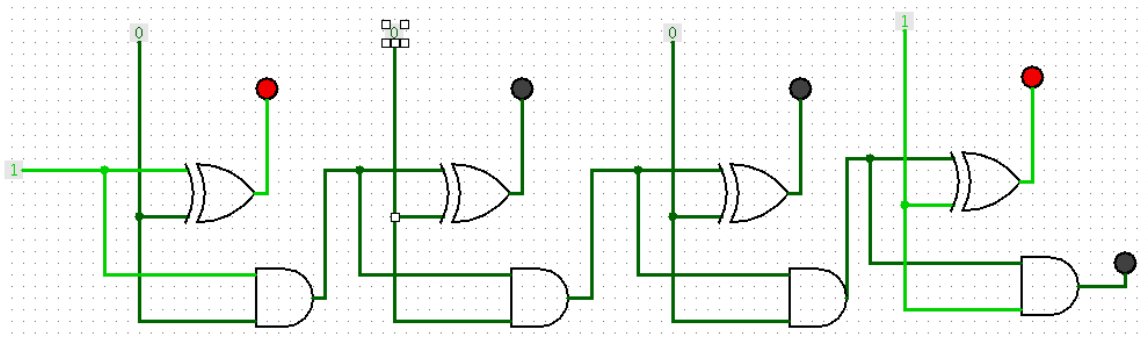# Essential Skills: Assignment Computer architecture

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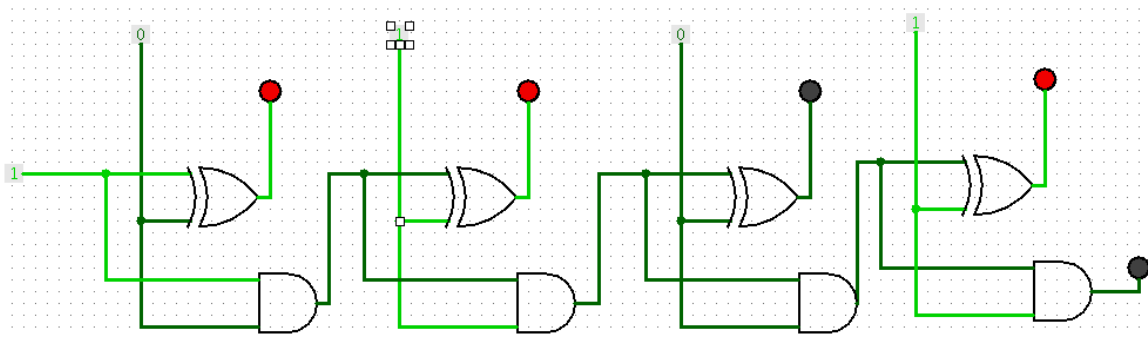
2 October 2016

1 Digital circuit

We add 1000 (right to left) from constant's. Output on leds is 1001.

We add 1010 (right to left) from constant's. Output on leds is 1011

2 Perfomance measurement

2.1 Installation SIM-PL

1. Downloading SimPL and components

   ```
   wget https://staff.fnwi.uva.nl/t.r.walstra/innopolis/SIM-[U+2010]PL_2.3.0.zip
   wget https://staff.fnwi.uva.nl/e.h.steffens/Downloads/Arco/Innopolis/Component_Lab_1.zip
   ```

2. Unzipping

   ```
   unzip SIM-[U+2010]PL_2.3.0.zip -d SIMPL
   unzip components_lab_1.zip -d comps
   ```

3. Executing executor

   ```
   cd SIMPL
   java -jar executor.jar
   ```

4. File-Open needed architecture. Than in code viewer file-open needed asm program.

2.2 Measuring parameters

2.2.1 Singlecycle

2.2.2 ForLoop.asm