**ECEN 454**

**LAB 1**

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**SECTION:** 511

**TA:** Guaynu Gao

**Fulladder:**

Schematic - fulladder

A picture containing light, large, hanging, lot

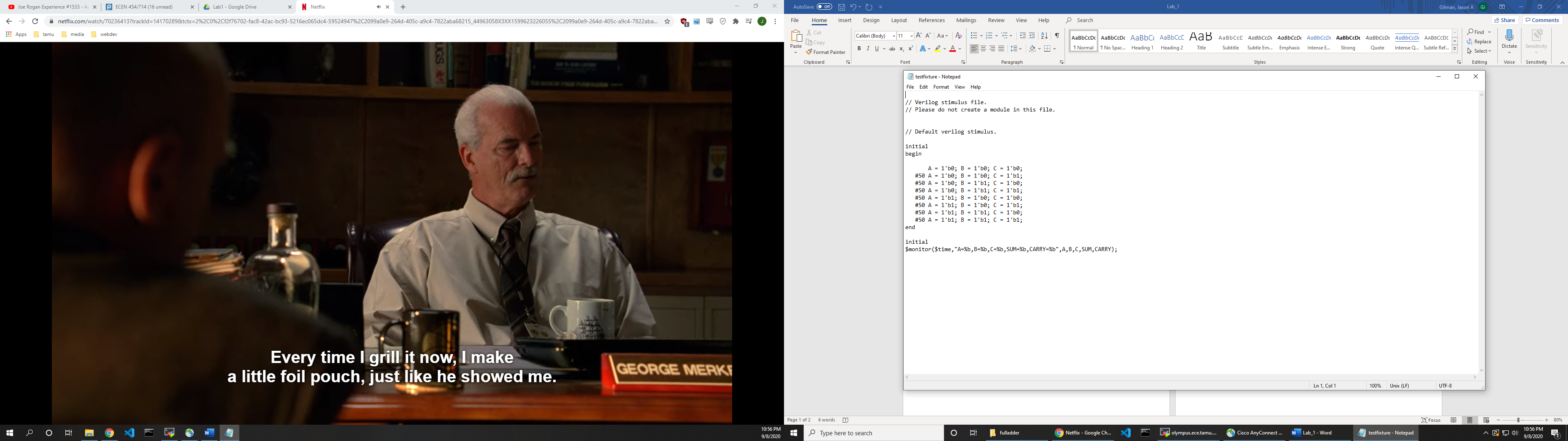
Description automatically generated

Symbol - fulladder

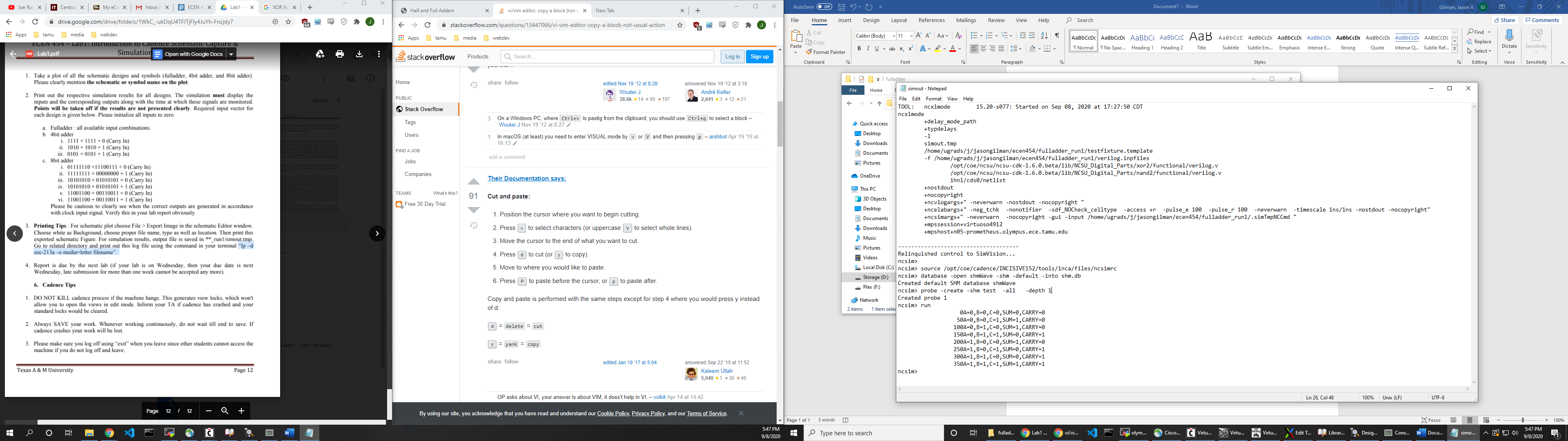
A screenshot of a cell phone

Description automatically generated

Testbench – fulladder



Simulation Output - fulladder



**4-Bit-Adder:**

Schematic – 4-bit-adder

A picture containing computer, computer, lot, table

Description automatically generated

Symbol – 4-bit-adder

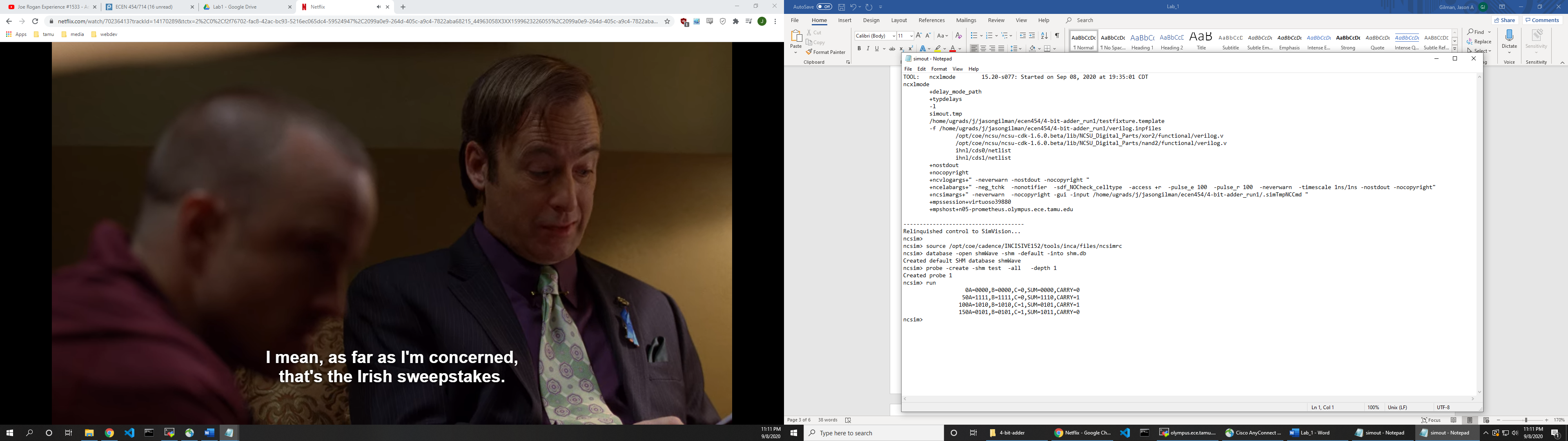
A picture containing light, large, rain, water

Description automatically generated

Testbench – 4-bit-adder



Simulation Output – 4-bit-adder



**4-Bit-Register:**

Schematic – 4-bit-register

A picture containing light, large

Description automatically generated

Symbol – 4-bit-register

A screenshot of a cell phone

Description automatically generated

**8-Bit-Adder:**

Schematic – 8-bit-adder

A picture containing text

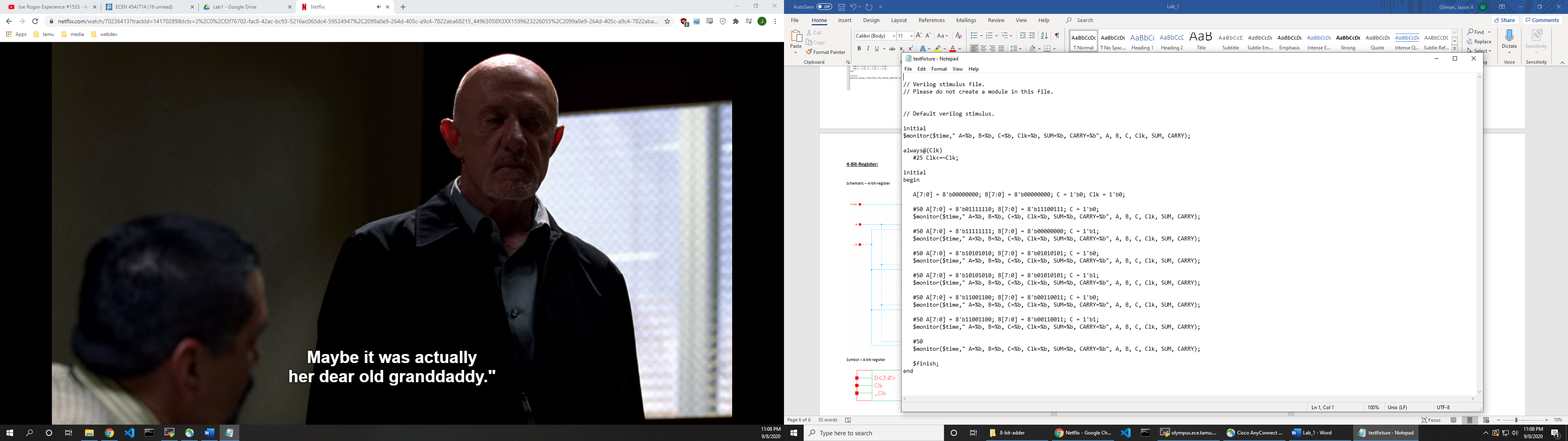
Description automatically generated

Symbol – 8-bit-adder

A screenshot of a cell phone

Description automatically generated

Testbench – 8-bit-adder



Simulation Output – 8-bit-adder

