**Assignment\_3**

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**====================================================================**

**Q1)**

**Main Code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.Do file:**

**Testbench code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Simulation:**

**A computer screen shot of a computer code

AI-generated content may be incorrect.**

**A screen shot of a computer screen

AI-generated content may be incorrect.**

**Linting:**

**A diagram of a circuit

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

**Q2)**

**TFF Golden model code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**DFF Golden model code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Main code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**TFF testbench:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**TFF do file:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**DFF testbench:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

**DFF do file:**

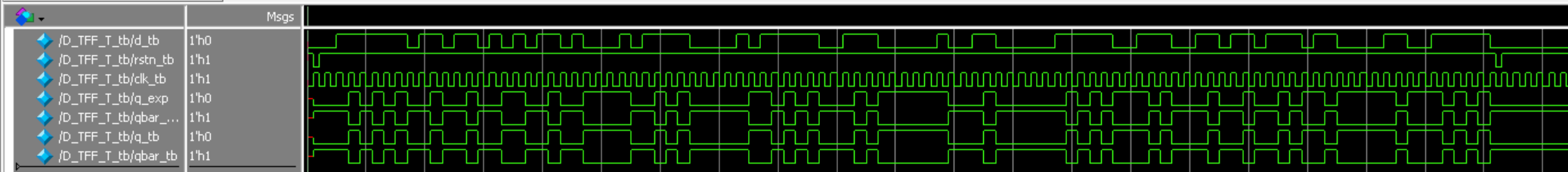
**A screenshot of a computer

AI-generated content may be incorrect.**

**TFF simulation:**

**A white background with black and white clouds

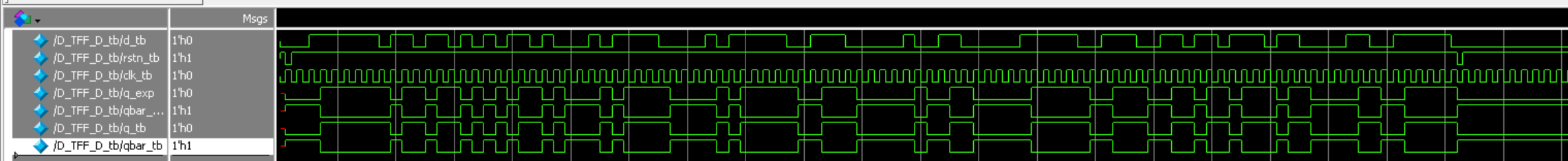
AI-generated content may be incorrect.**

****

**DFF simulation**

**A computer screen shot of a computer code

AI-generated content may be incorrect.**

****

**TFF lint:**

**A diagram of a computer

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

**DFF lint:**

**A diagram of a computer

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.**

**Q3)**

**Main code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Do file:**

**A screenshot of a computer

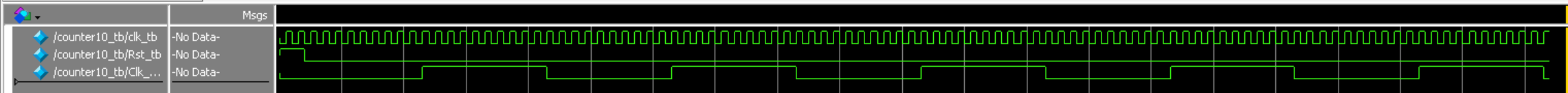
AI-generated content may be incorrect.**

**Testbench code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Simulation:**

****

**Lint:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A diagram of a computer

AI-generated content may be incorrect.**

**Q4)**

**DFF code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Counter code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Counter testbench code:**

**A screenshot of a computer program

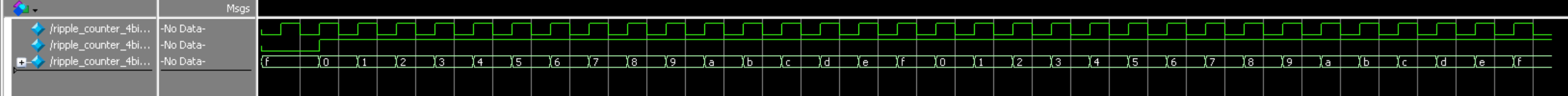
AI-generated content may be incorrect.**

**Do file:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Simulation:**

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**Lint:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Schematic:**

**A diagram of a circuit

AI-generated content may be incorrect.**

**Q5)**

**A screen shot of a computer program

AI-generated content may be incorrect.Register code:**

**A screenshot of a computer

AI-generated content may be incorrect.Do file:**

**Testbench code:**

**A screen shot of a computer program

AI-generated content may be incorrect.**

//rest of code in next page:

**A screen shot of a computer program

AI-generated content may be incorrect.**

**Simulation:**

**A black screen with green and red lines

AI-generated content may be incorrect.**

**Lint:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A diagram of a circuit

AI-generated content may be incorrect.Schematic:**

**Q6)**

**SLE code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Do file:**

**A screenshot of a computer program

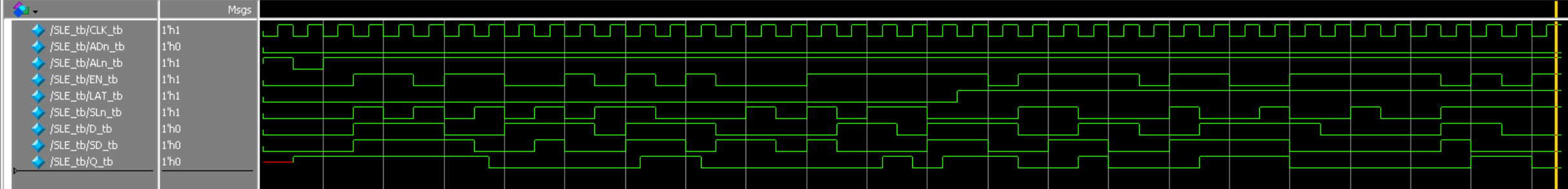
AI-generated content may be incorrect.**

**Testbench code:**

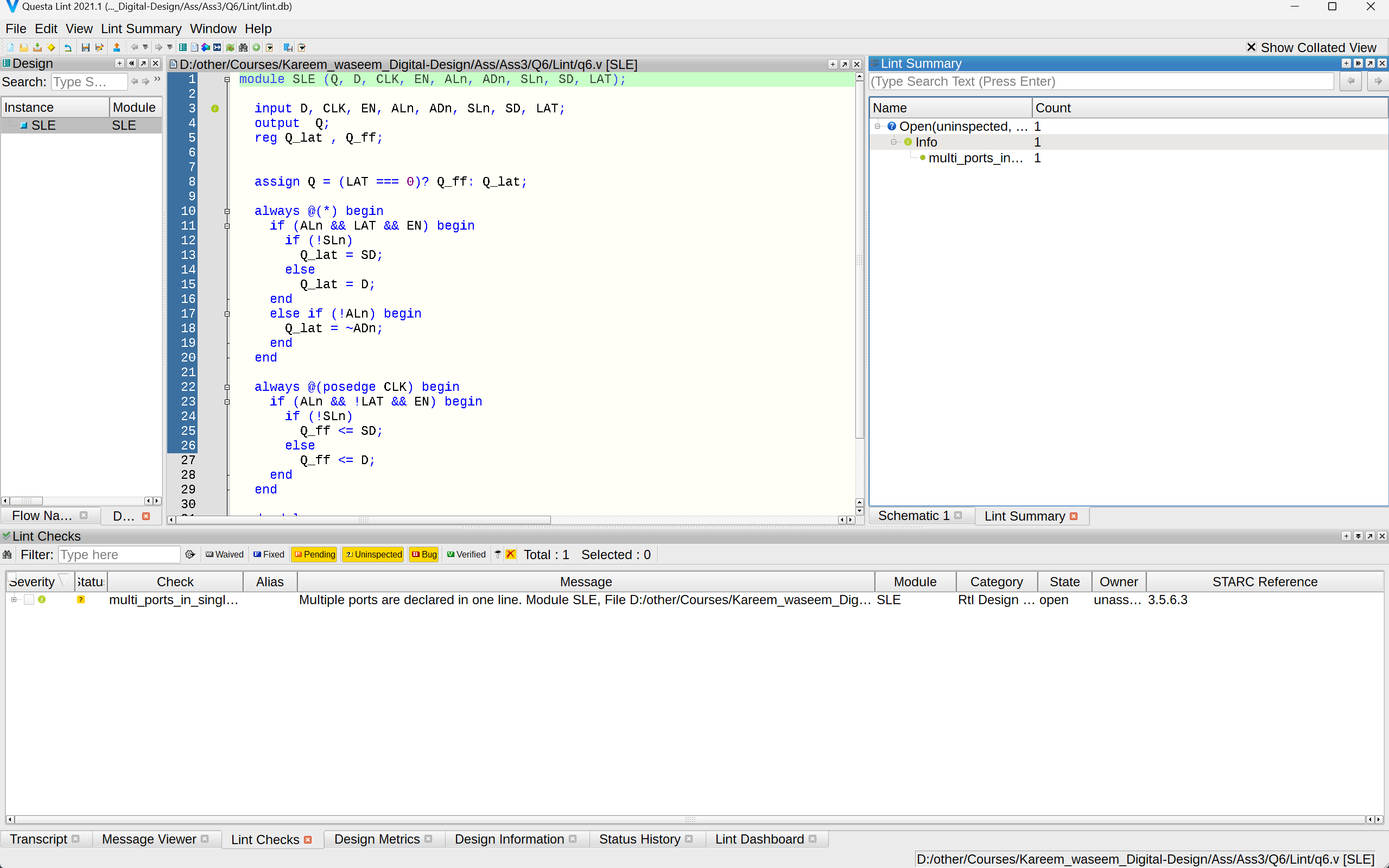
**A screenshot of a computer program

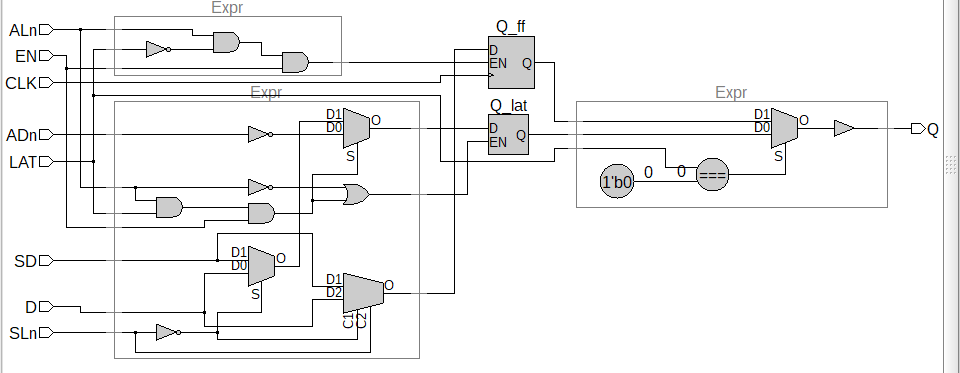
AI-generated content may be incorrect.**

**Simulation:**

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**Lint:**

****

**Schematic: **