**UNIVERSIDAD DE INGENIERÍA Y TECNOLOGÍA**



**Curso:**

Arquitectura de computadoras’

Laboratorio 02

Estudiante:

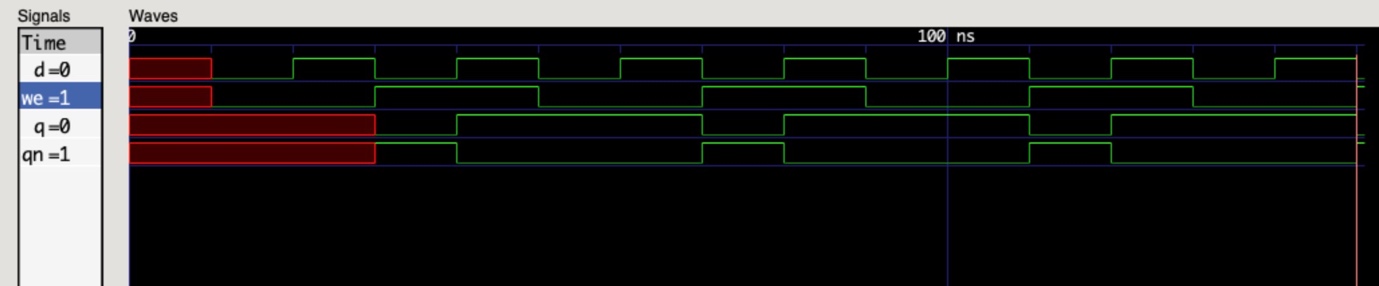
Chavez Zapata, Lenin Gerardo

Profesora:

Adanaqué Infante, Luz Antuanet

Lima, 16 de septiembre de 2023

**Question 1:**

Waveform:

RTL schematic:A screenshot of a computer

Description automatically generated

Synthesis:A computer screen shot of a diagram

Description automatically generated

Table:

|  |  |  |
| --- | --- | --- |
| / | Analysis | Synthesis |
| Cells | 5 | 6 |
| Ports | 4 | 4 |
| Nets | 8 | 8 |

**Question 2:**

Waveform:

A computer screen with green squares

Description automatically generated

RTL schematic:

A screenshot of a computer

Description automatically generated

Synthesis:A computer screen shot of a computer

Description automatically generated

Table:

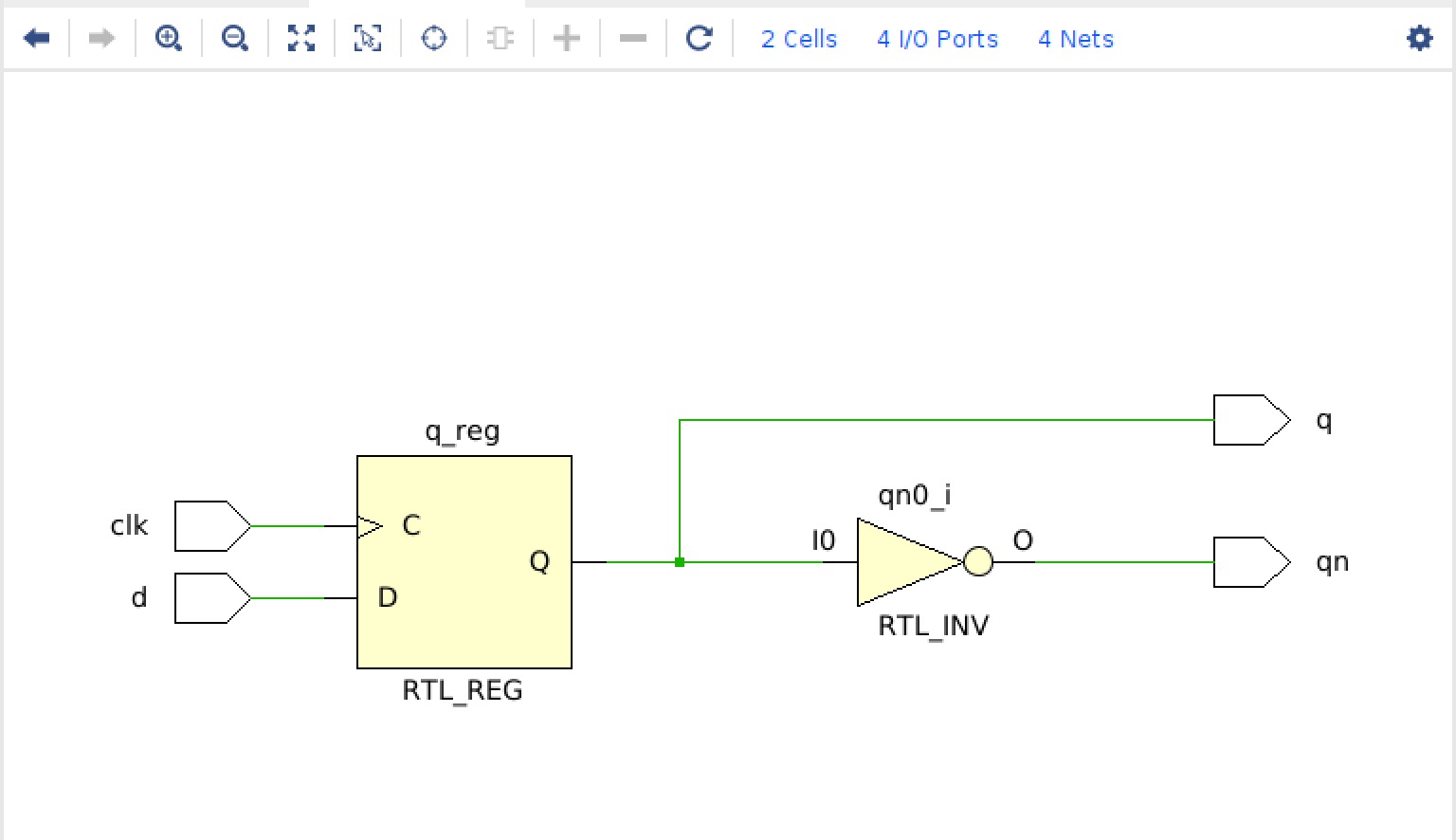
|  |  |  |
| --- | --- | --- |
| / | Analysis | Synthesis |
| Cells | 3 | 7 |
| Ports | 4 | 4 |
| Nets | 6 | 9 |

**Question 3:**

Waveform:A black and green rectangular object

Description automatically generated

RTL schematic:



Synthesis:A screenshot of a computer

Description automatically generated

Table:

|  |  |  |
| --- | --- | --- |
| / | Analysis | Synthesis |
| Cells | 2 | 7 |
| Ports | 4 | 4 |
| Nets | 4 | 11 |

**Question 4:**

**Behavioral:**

Waveform:A computer screen shot of a game

Description automatically generated

RTL schematic:

A screenshot of a computer

Description automatically generated

Synthesis:A computer screen shot of a computer

Description automatically generated

Table:

|  |  |  |
| --- | --- | --- |
| / | Analysis | Synthesis |
| Cells | 4 | 11 |
| Ports | 6 | 6 |
| Nets | 6 | 15 |

**Structural:**

Waveform:A screenshot of a video game

Description automatically generated

RTL schematic:

A screenshot of a computer program

Description automatically generated

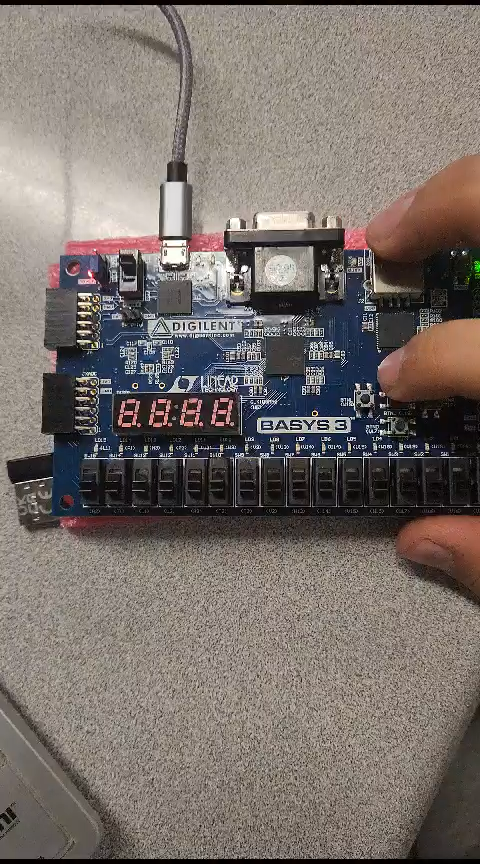
Synthesis:A computer screen shot of a diagram

Description automatically generated

Table:

|  |  |  |
| --- | --- | --- |
| / | Analysis | Synthesis |
| Cells | 4 | 22 |
| Ports | 6 | 6 |
| Nets | 6 | 24 |

Implementación en la Basys3:

A hand holding a circuit board

Description automatically generated