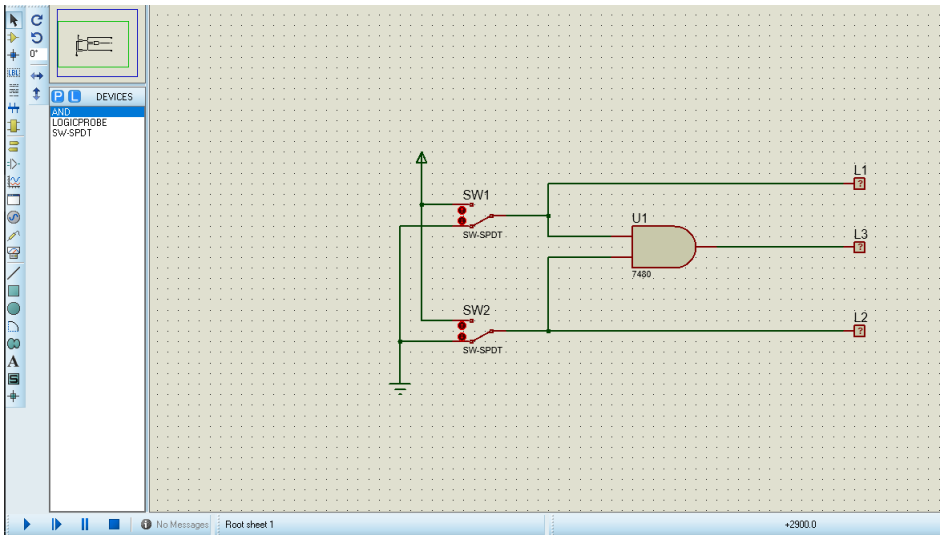Name          : Aria Widiyo Noviyanto

Class         : X

NIM           : L200183043


Exercise 1

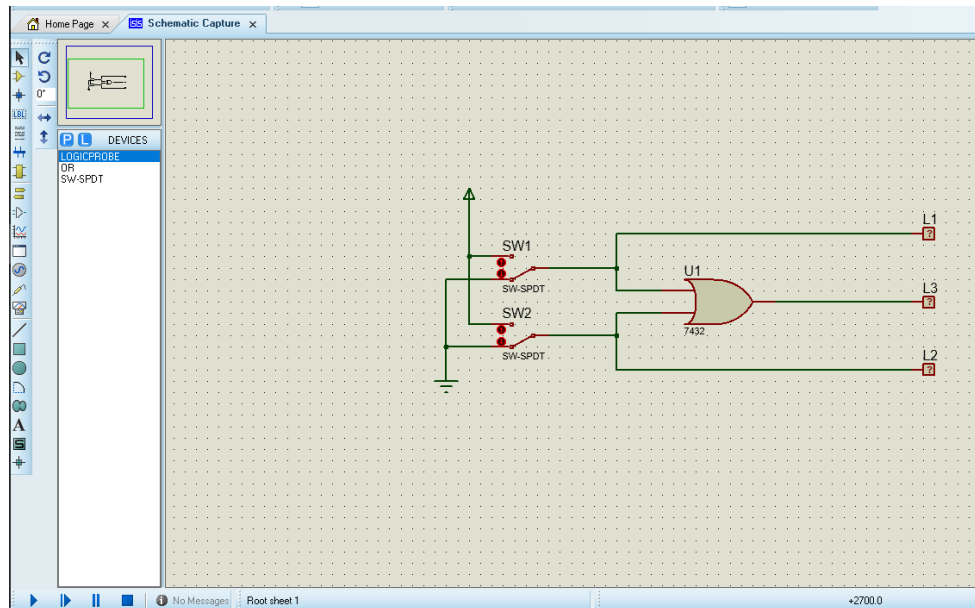1.  Make Logic Gates on picture



2.  Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|-------|------|----|----|----|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 |

3.  Diagram Time.

| | | | | |
|----|----|----|----|----|
| L1 | | | | |
| L2 | | | | |
| L3 | | | | |

Exercise 2

1.  Make Logic Gates on this picture



2.  Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 |

3.  Diagram Time.

Exercise 3

1. Make Logic Gates on this Picture.
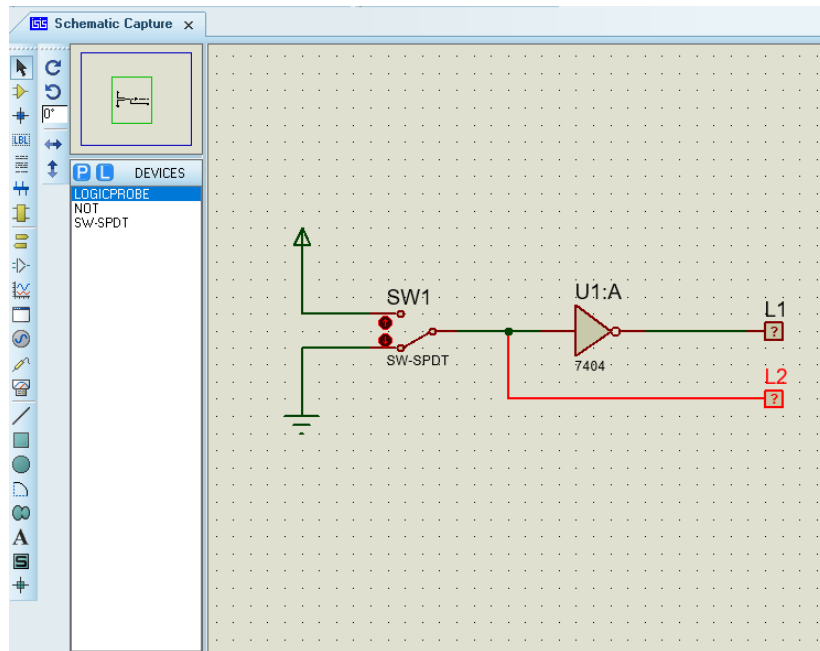


2. Truth Table.

| S W 1 | L2 | L1 |
|---|---|---|
| 0 | 0 | 1 |
| 1 | 1 | 0 |

3. Diagram Time.

| L1 | | |
|---|---|---|
| | | |
| L2 | | |
| | | |

Exercise 4

1. Make Logic Gates on this Picture.
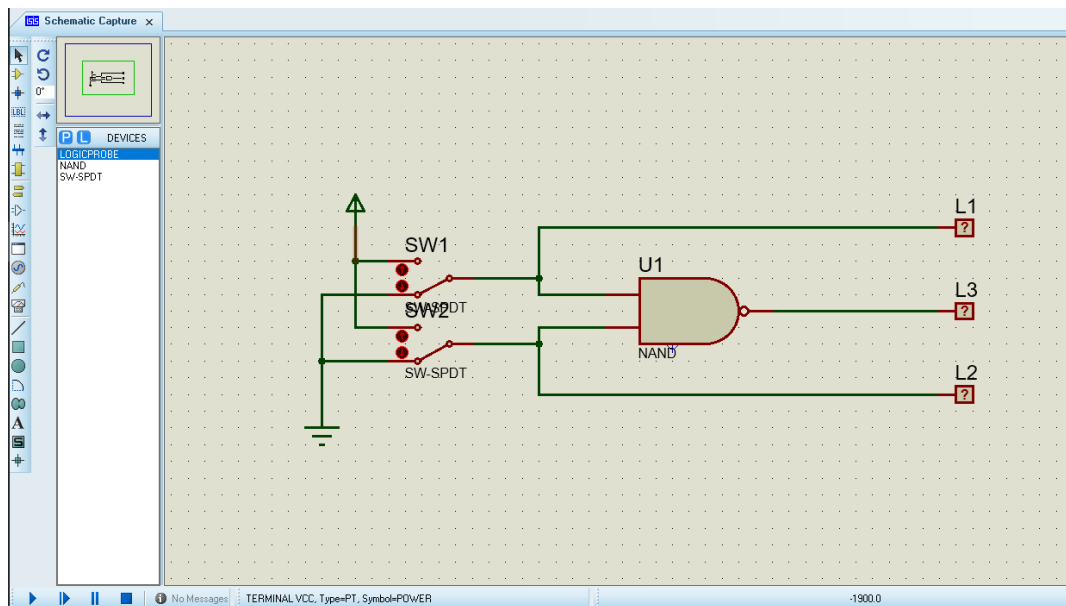


2. Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 |

3. Diagram Time.

| | | | | |
|---|---|---|---|---|
| L1 | | | | |
| | | | | |
| | | | | |
| L2 | | | | |
| | | | | |
| | | | | |
| L3 | | | | |
| | | | | |
| | | | | |

Exercise 5

1. Make Logic Gates on this Picture.
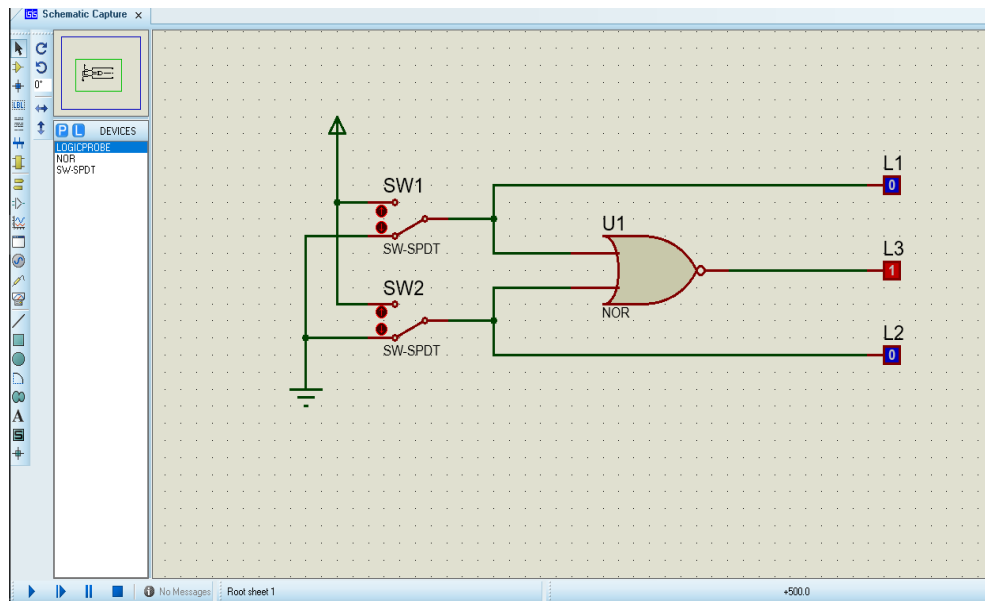


2. Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|-------|------|----|----|----|
| 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 |

3. Diagram Time.

| | | | | |
|--|--|--|--|--|
| L1 | | | | |
| L2 | | | | |
| L3 | | | | |

Exercise 6

1. Make Logic Gates on this Picture.
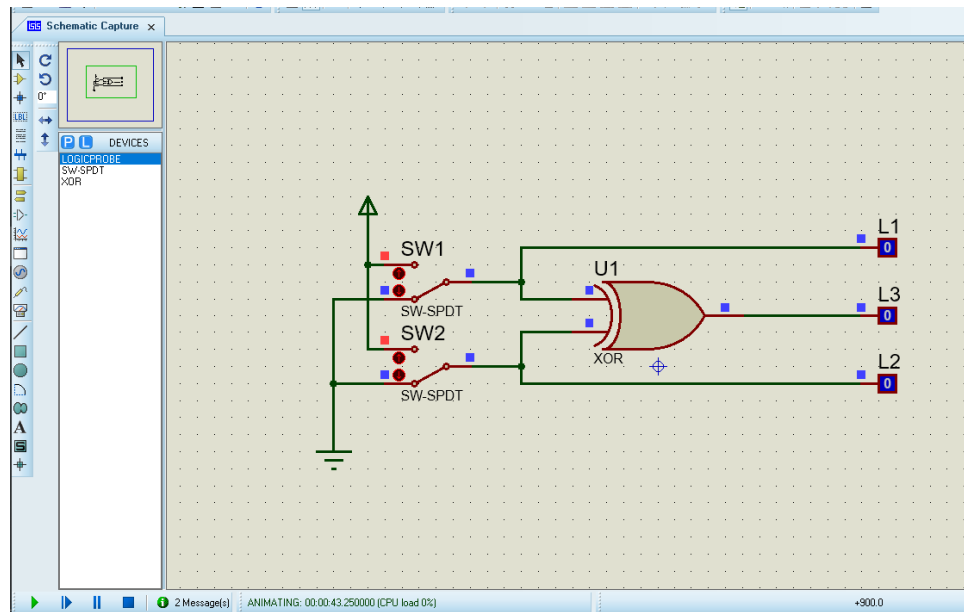


2. Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 |

3. Diagram Time.

| | | | | |
|---|---|---|---|---|
| L1 | | | | |
| L2 | | | | |
| L3 | | | | |

Exercise 7

1. Make Logic Gates on this Picture.
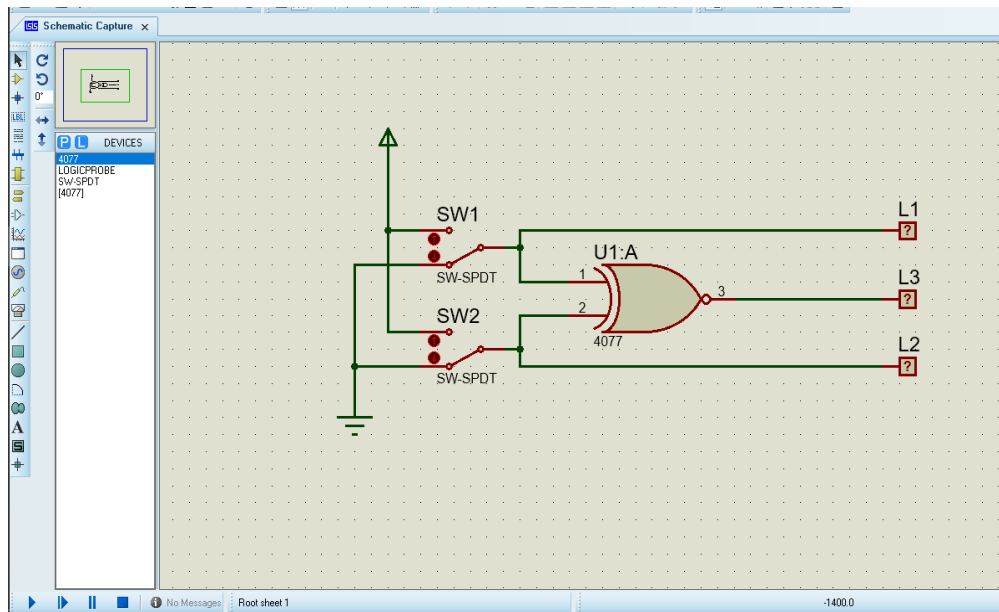


2. Truth Table.

| S W 1 | SW 2 | L1 | L2 | L3 |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 |

3. Diagram Time.

| | | | | |
|---|---|---|---|---|
| L1 | | | | |
| L2 | | | | |
| L3 | | | | |