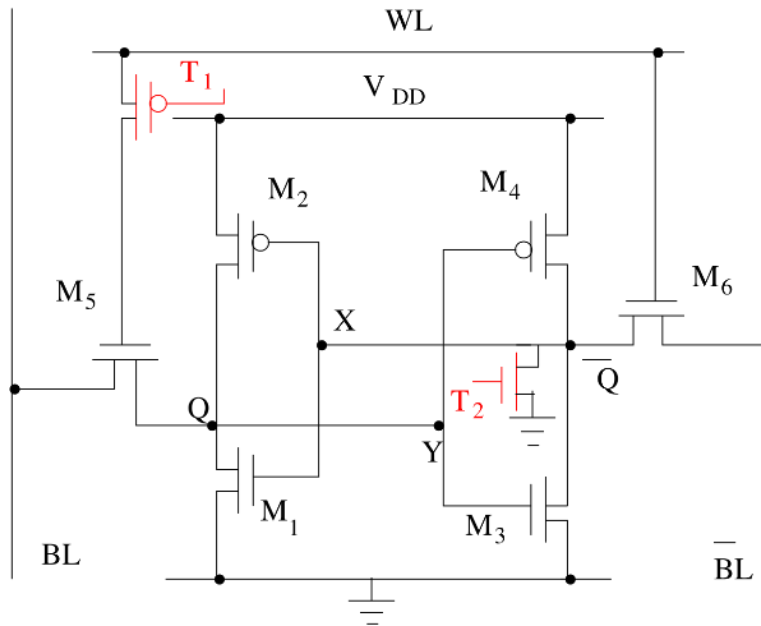# Report-19

SHANTONU DEBNATH
Dept. of CST, IIEST, Shibpur

➤ Different Answer for the change of W/L.


Table

➤ Here I added only finishing time.
➤ In normally we find the voltage V1, Vbl, Vblb, Vi5, Vq, Vqr, Vt, Vwl.
➤ After change the W/L V1, Vbl, Vi5, Vq, Vqr, Vt change their timing.

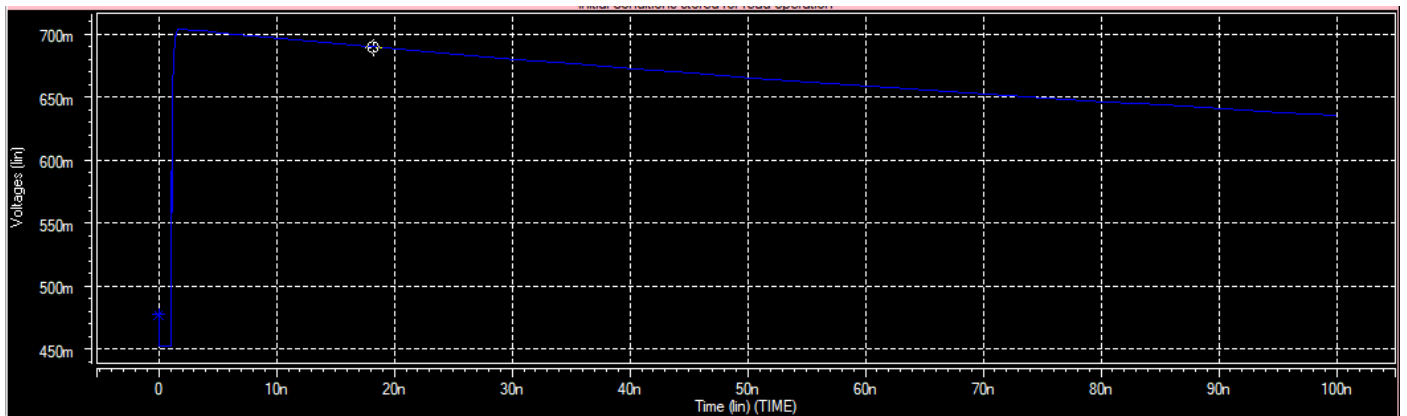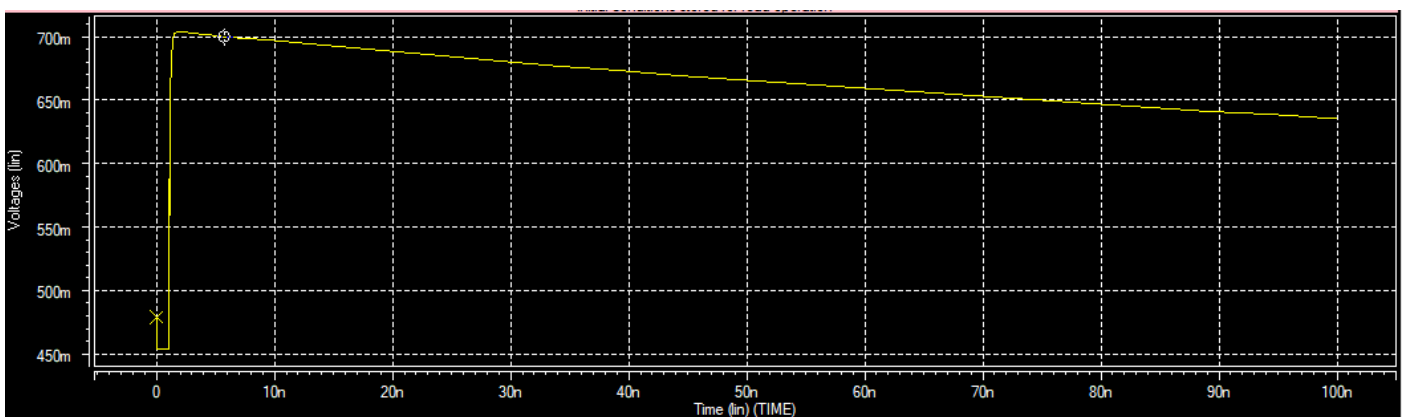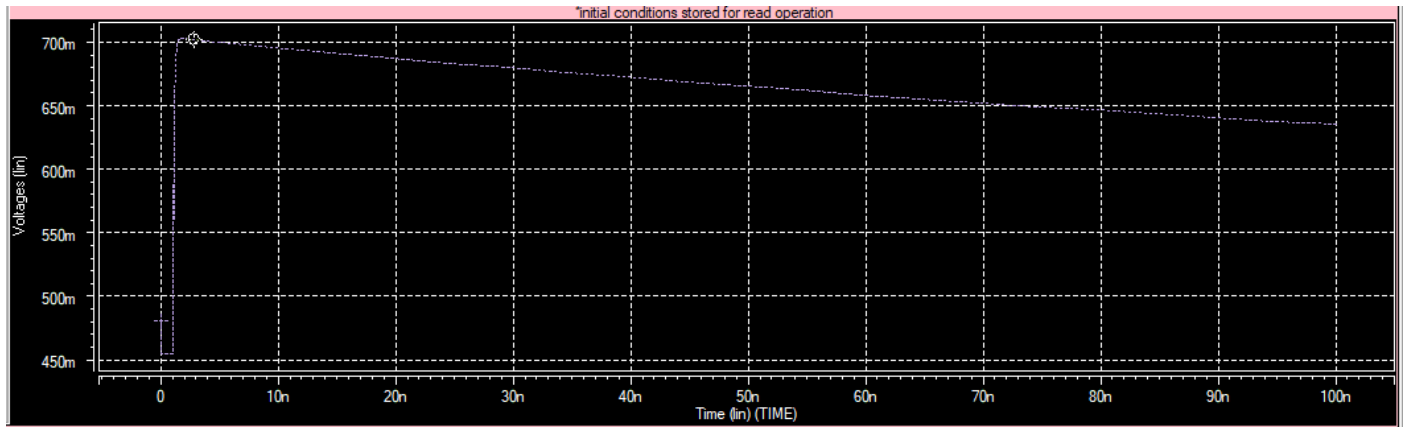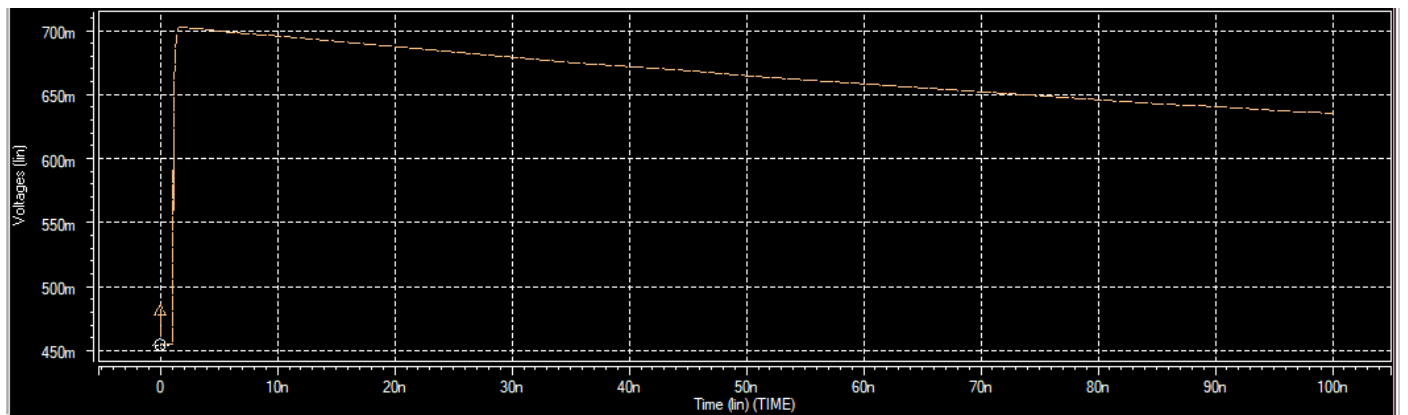| Voltage	W/L=1	W/L=2	W/L=3	W/L=4	W/L=5	W/L=6
V1	3.89 ns	5.59 ns	5.59 ns	5.08 ns	5.30 ns	4.07 ns
Vbl	4.39 ns	1.72 ns	1.73 ns	1.17 ns	1.17 ns	1.17 ns
Vi5	4 ns	1.68 ns	2.28 ns	1.85 ns	1.64 ns	1.79 ns
Vq	1.37 ns	1.18 ns	1.17 ns	1.17 ns	1.17 ns	1.17 ns
Vqr	15.0 ns	24.5 ns	56.0 ns	38.5 ns	31.7 ns	2.05 ns
Vt	3.31 ns	1.17 ns	1.16 ns	1.17 ns	1.17 ns	1.17 ns

Graph

Voltage V1:

1. For W/L=1
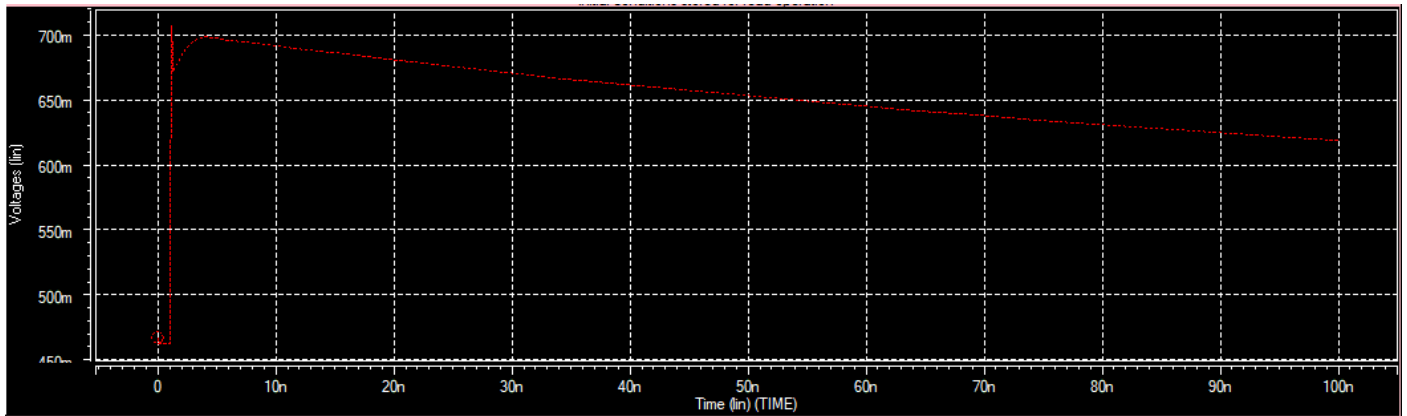
2. For W/L=2

3. For W/L=3

4. For W/L=4

5. For W/L=5

6. For W/L=6

Voltage Vbl:

1. For W/L=1

2. For W/L=2

3. For W/L=3

4. For W/L=4

5. For W/L=5

6. For W/L=6

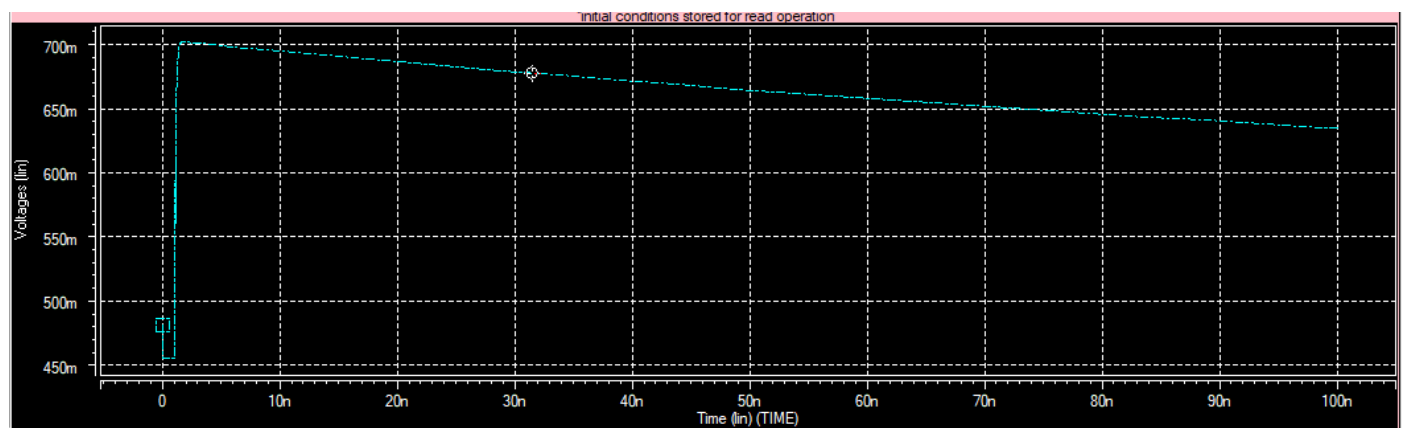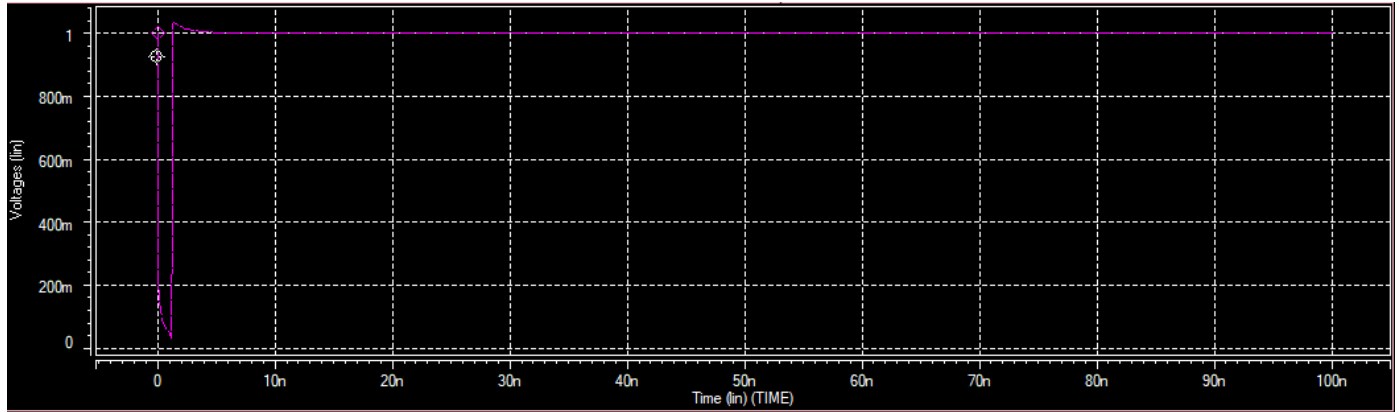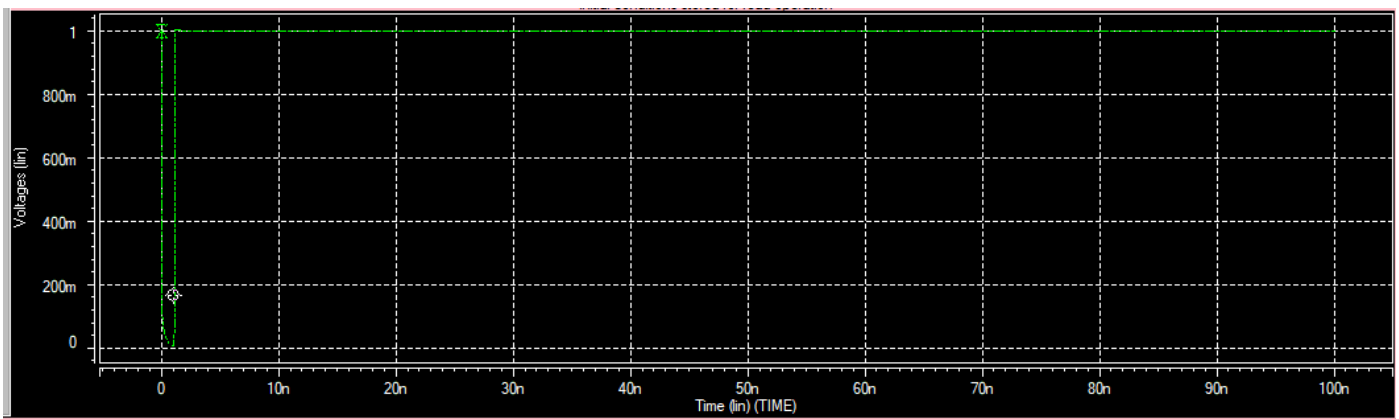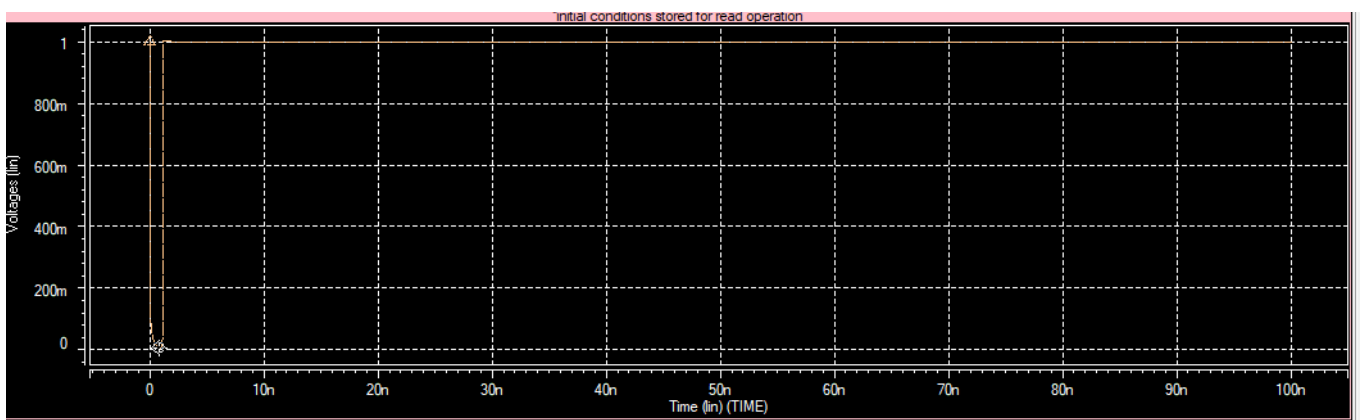Voltage Vi5:

1. For W/L=1

2. For W/L=2

3. For W/L=3

4. For W/L=4
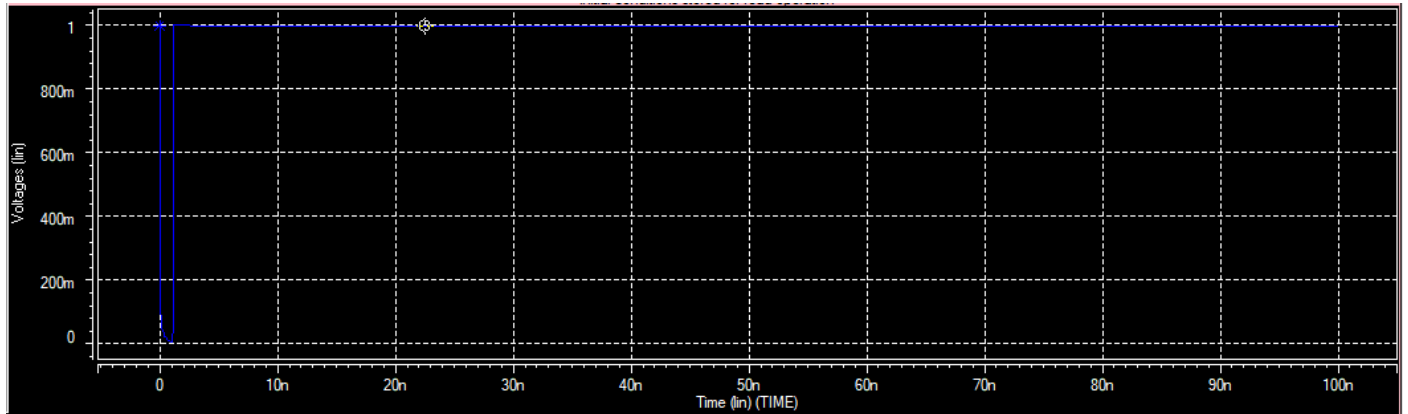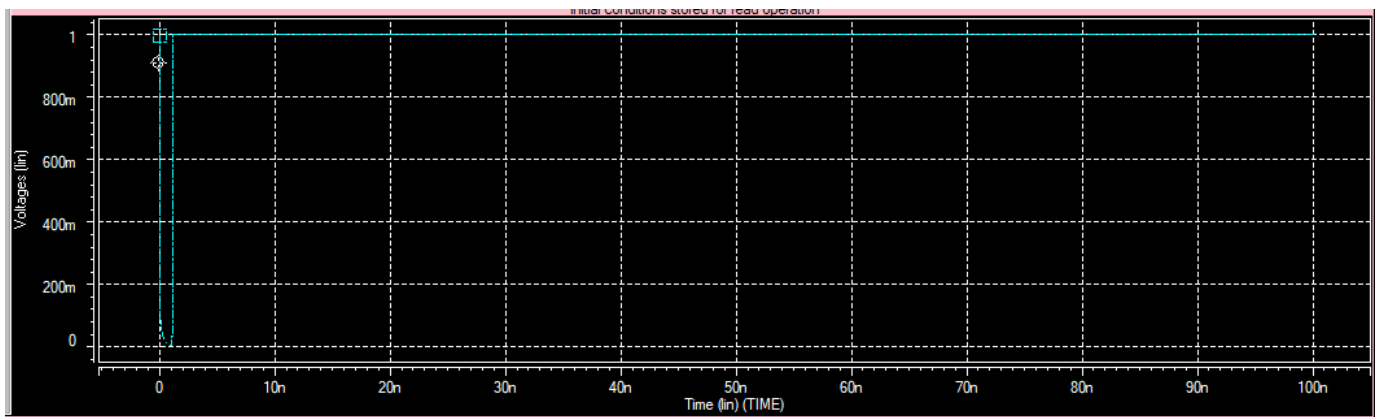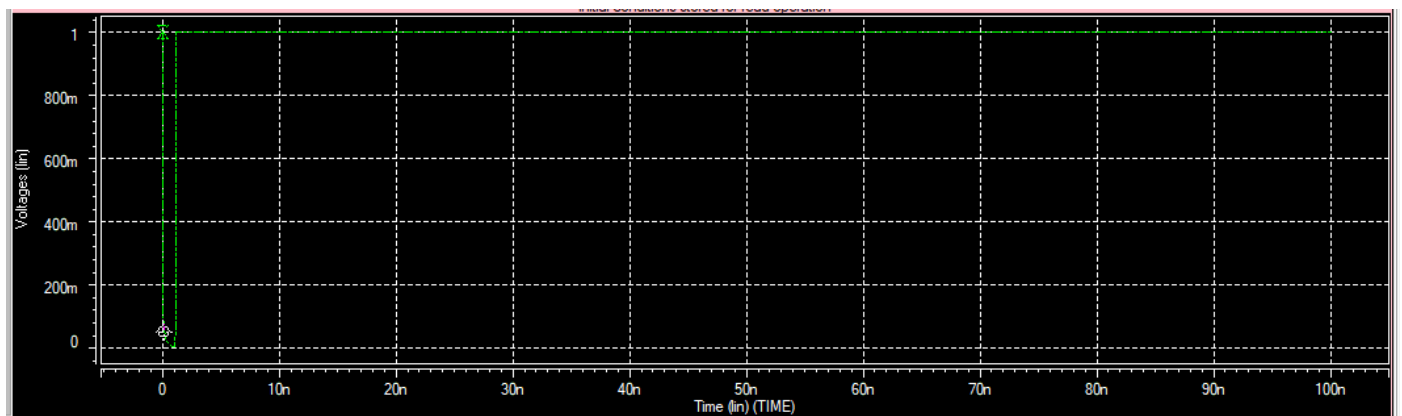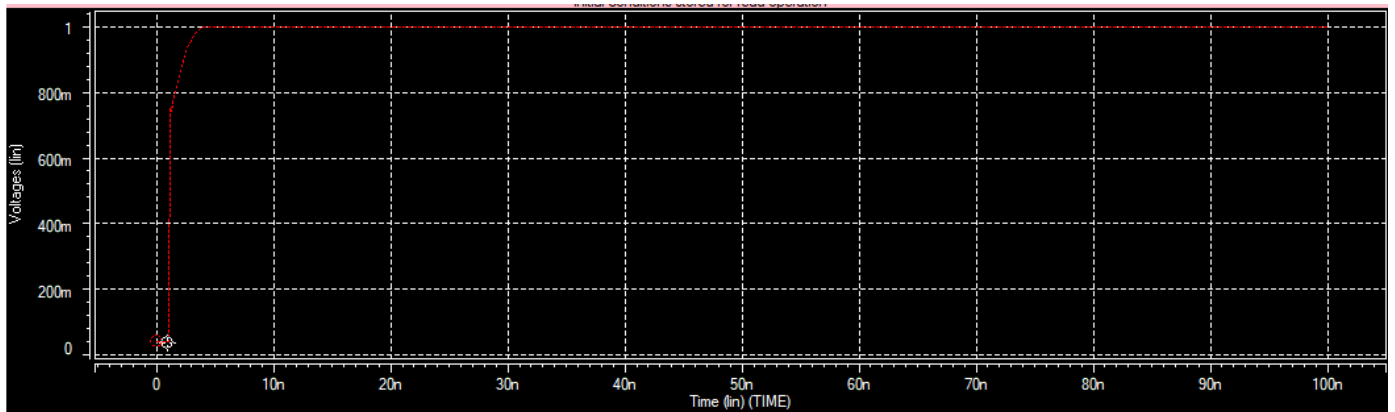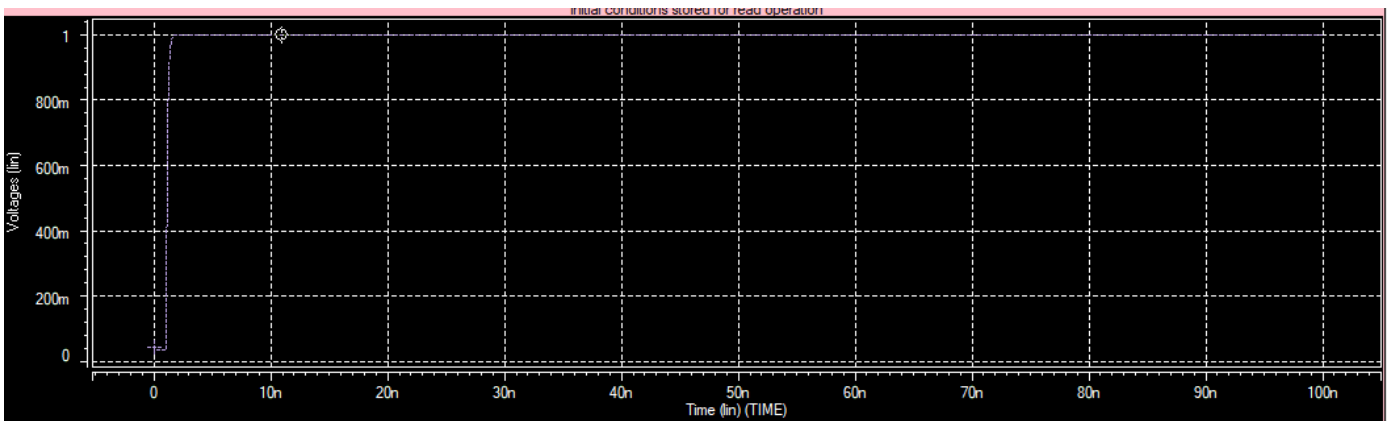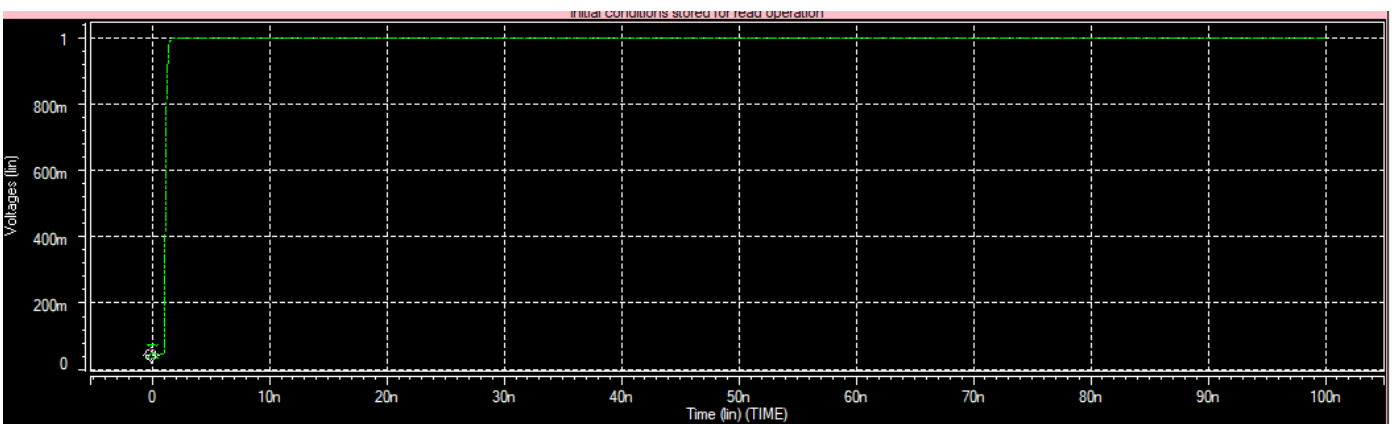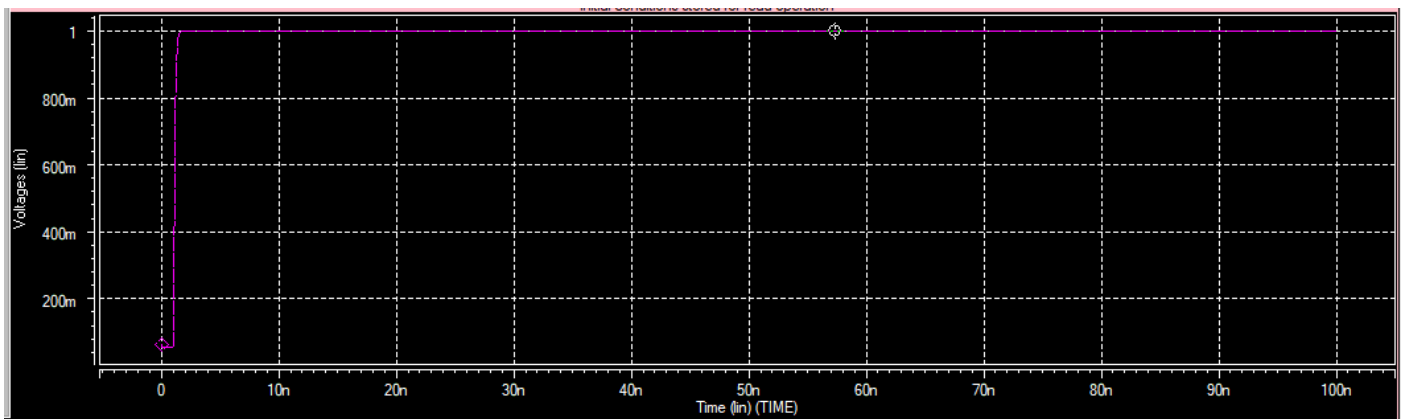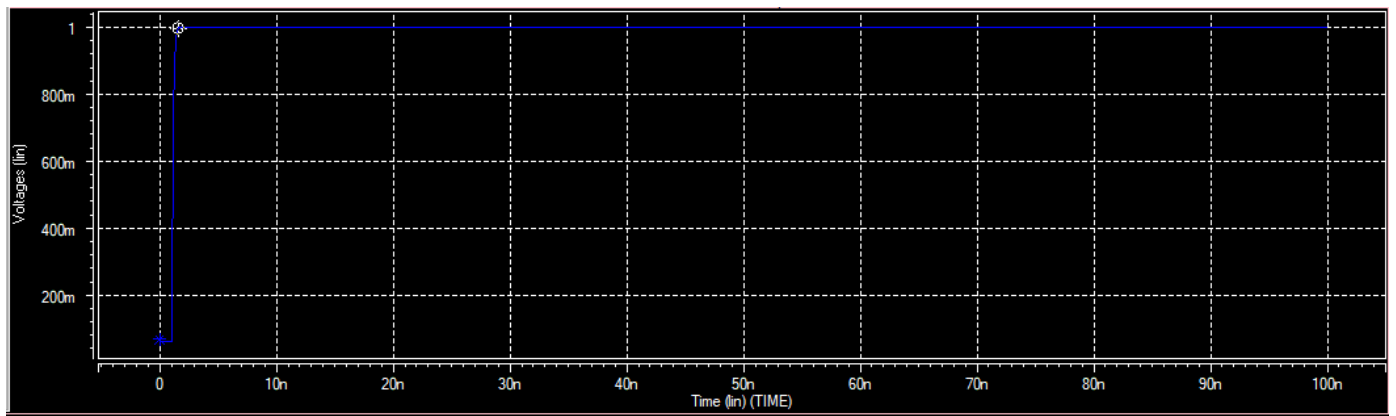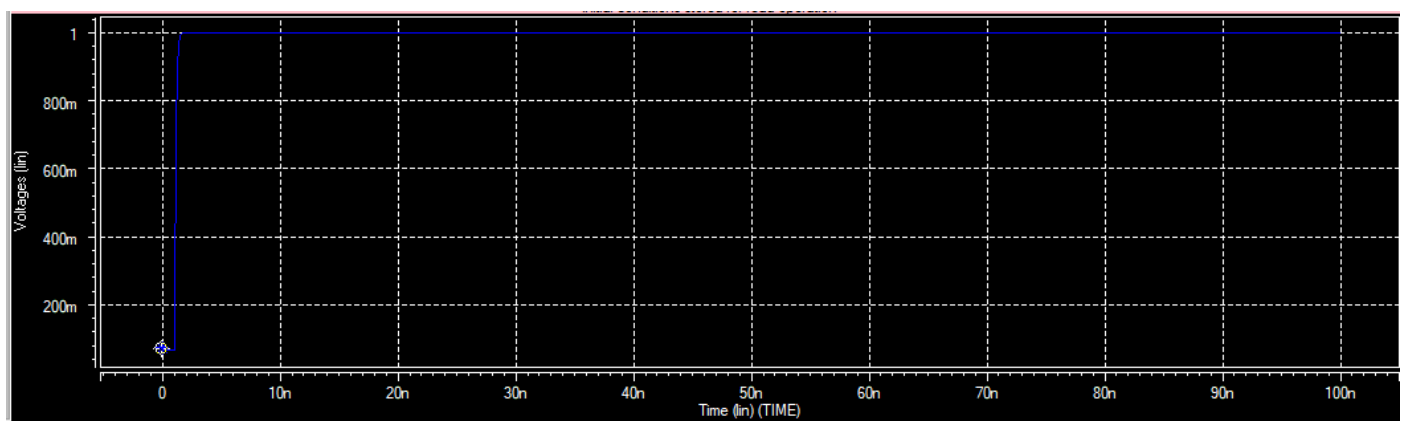

5. For W/L=5

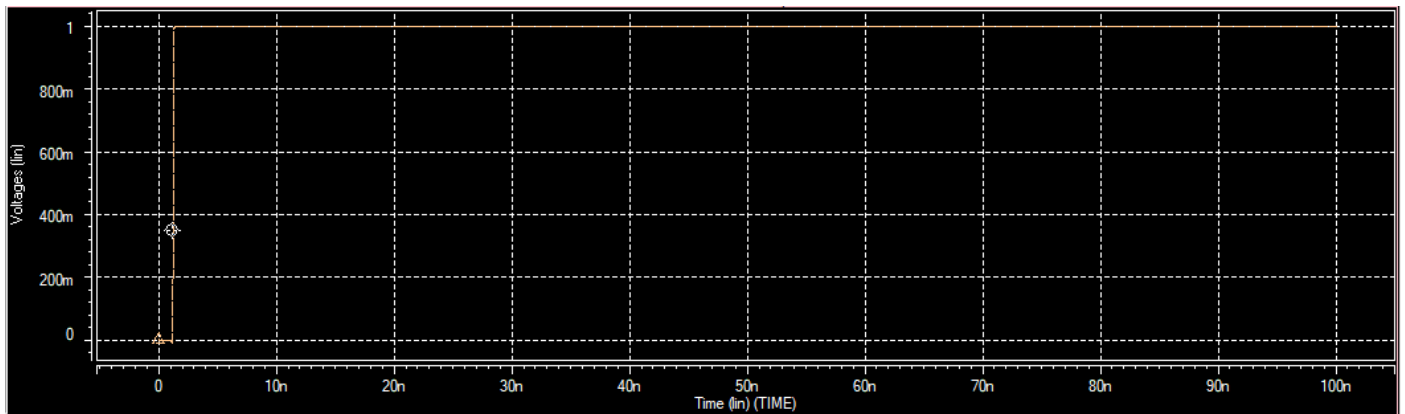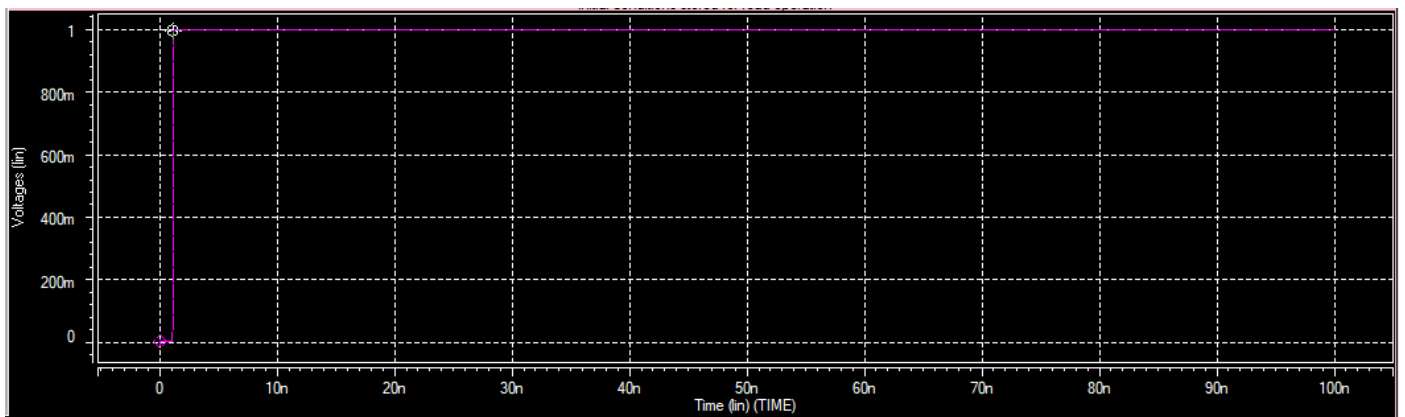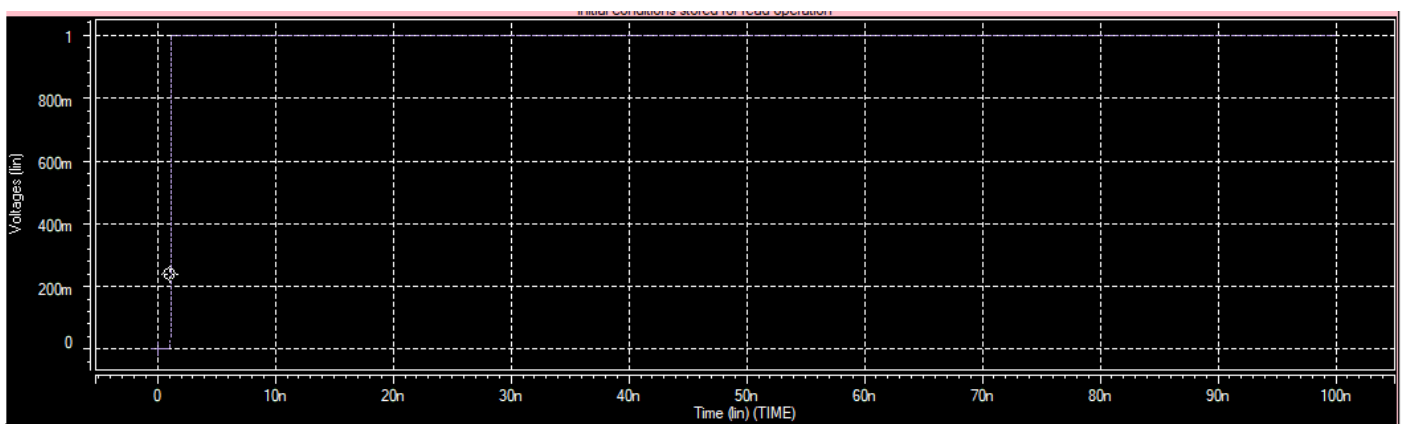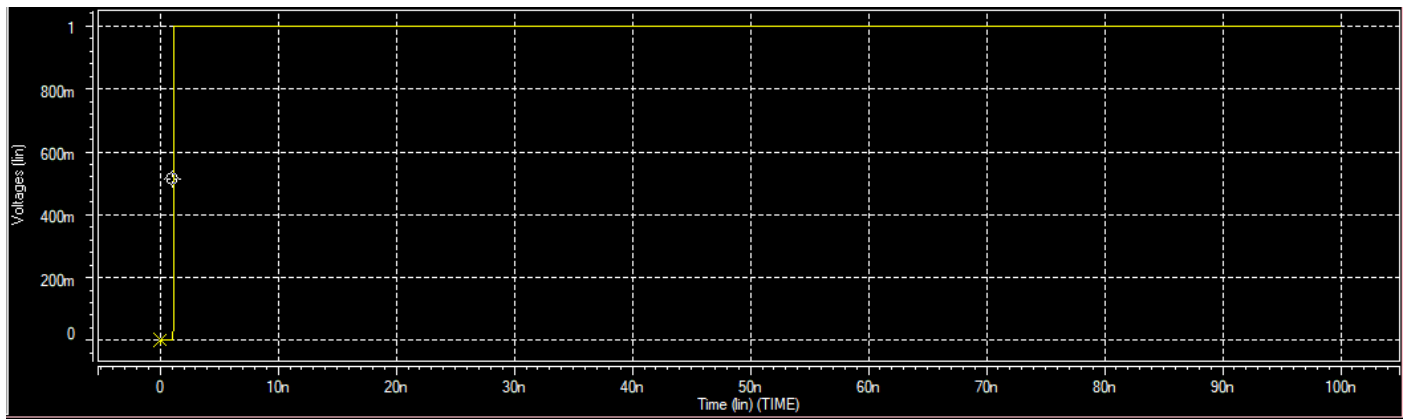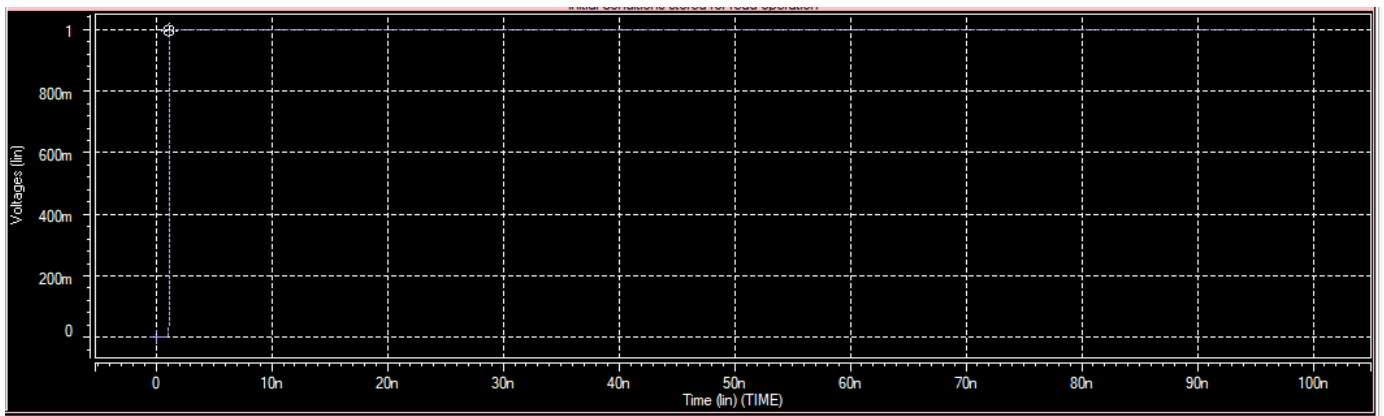## 6. For W/L=6

Voltage Vq:

1. For W/L=1

2. For W/L=2

3. For W/L=3
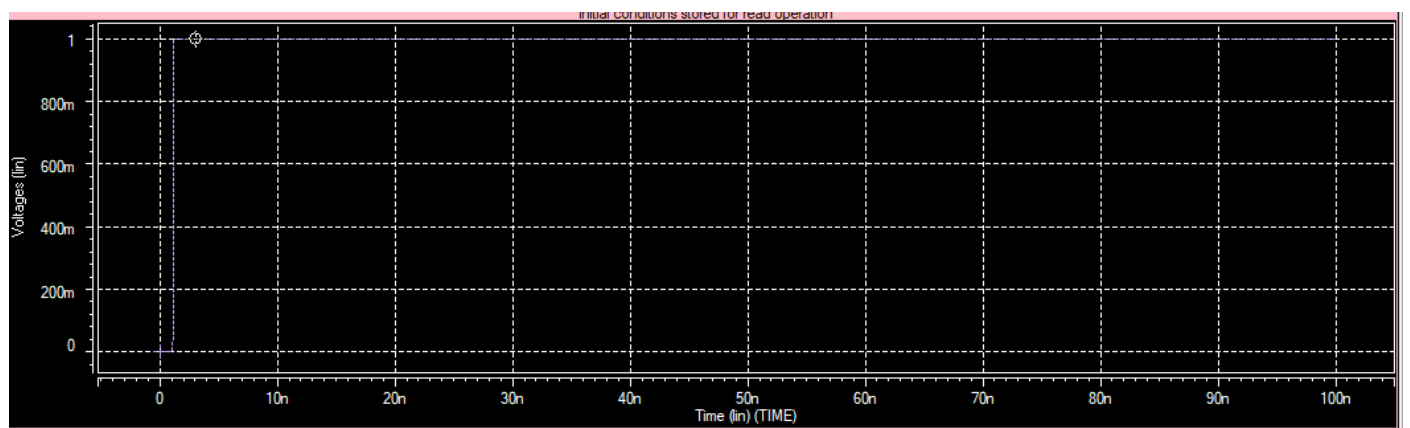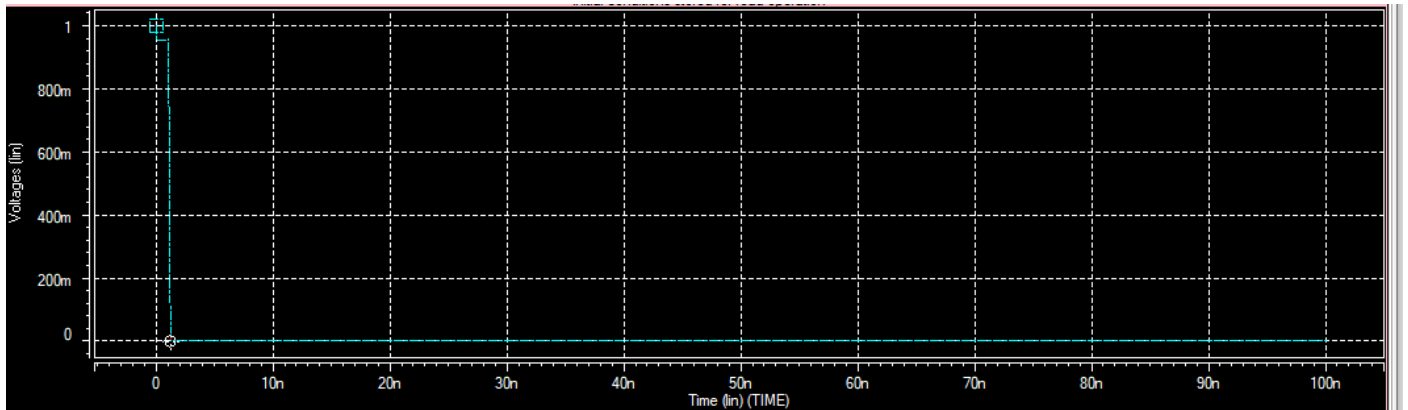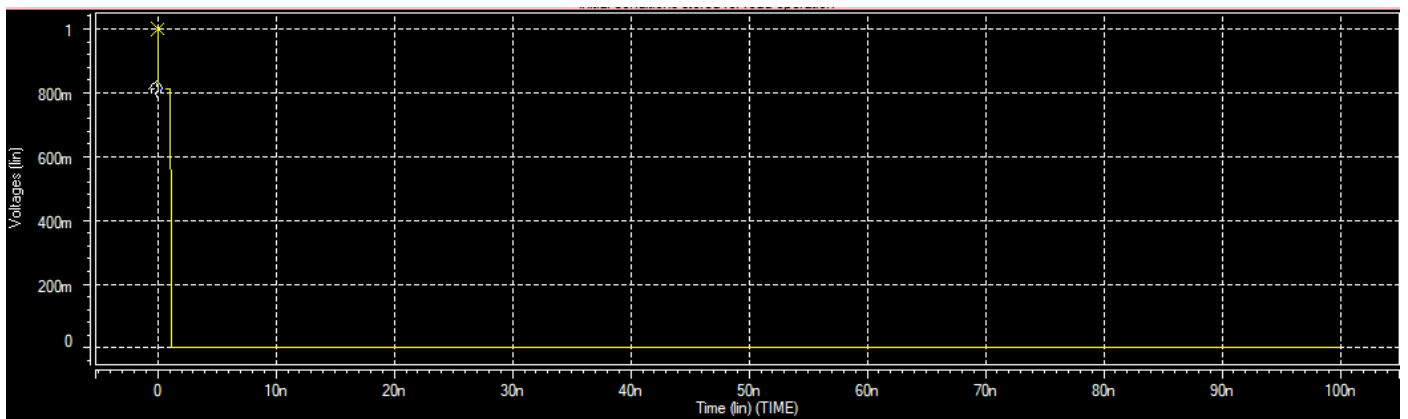
4. For W/L=4
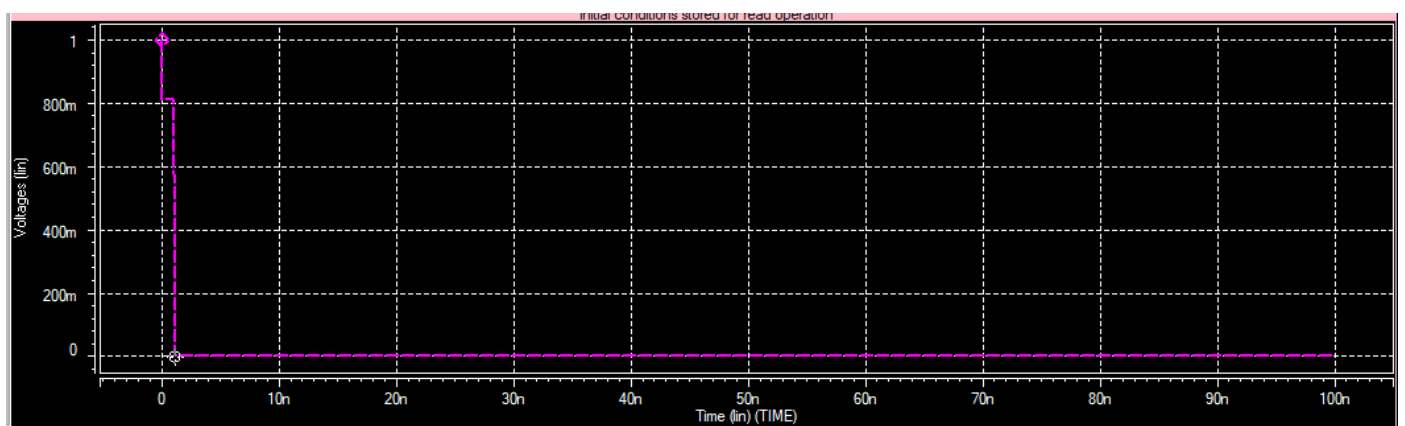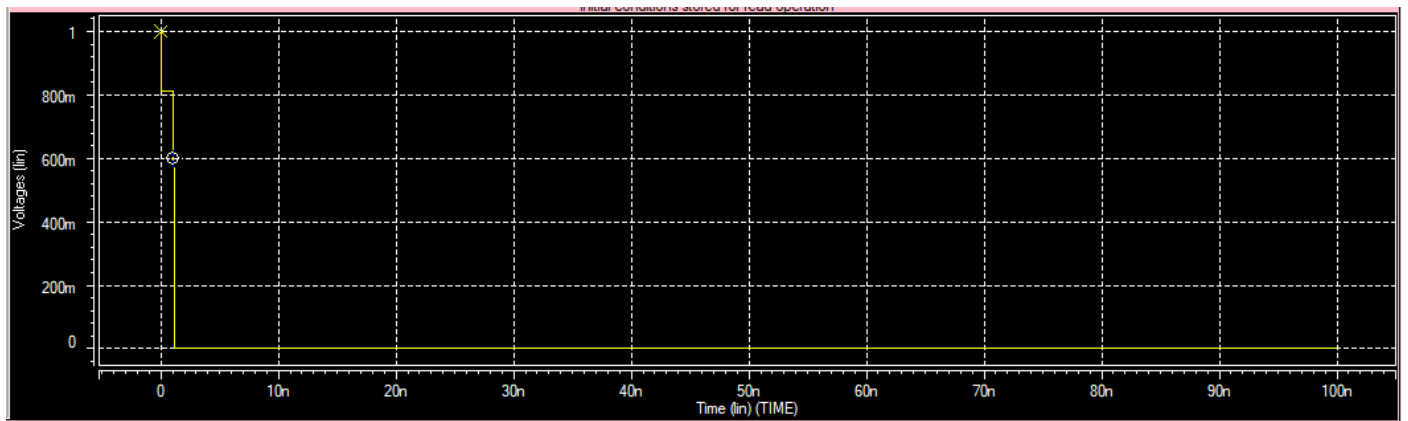

5. For W/L=5

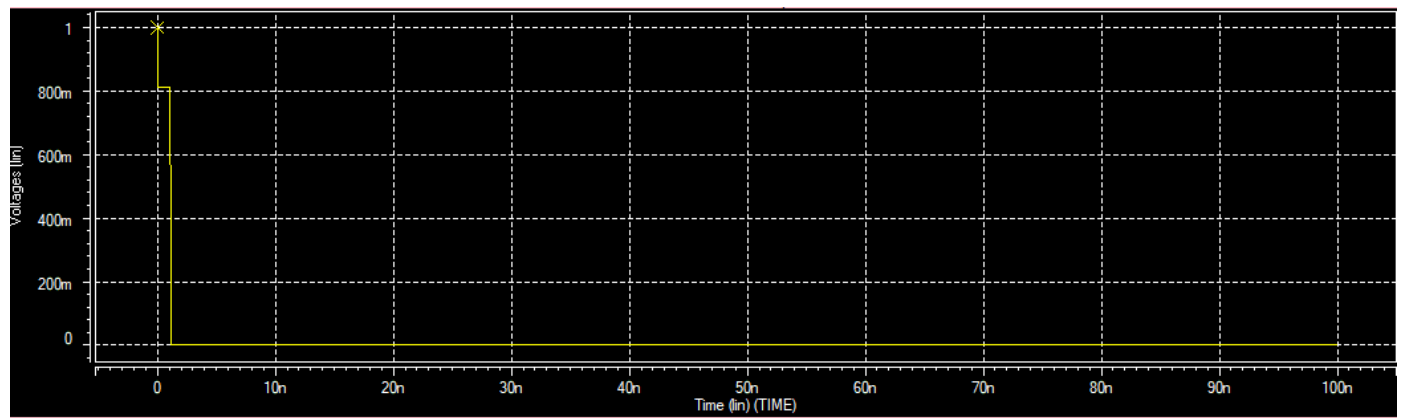## 6. For W/L=6

Voltage Vqr:

1. For W/L=1
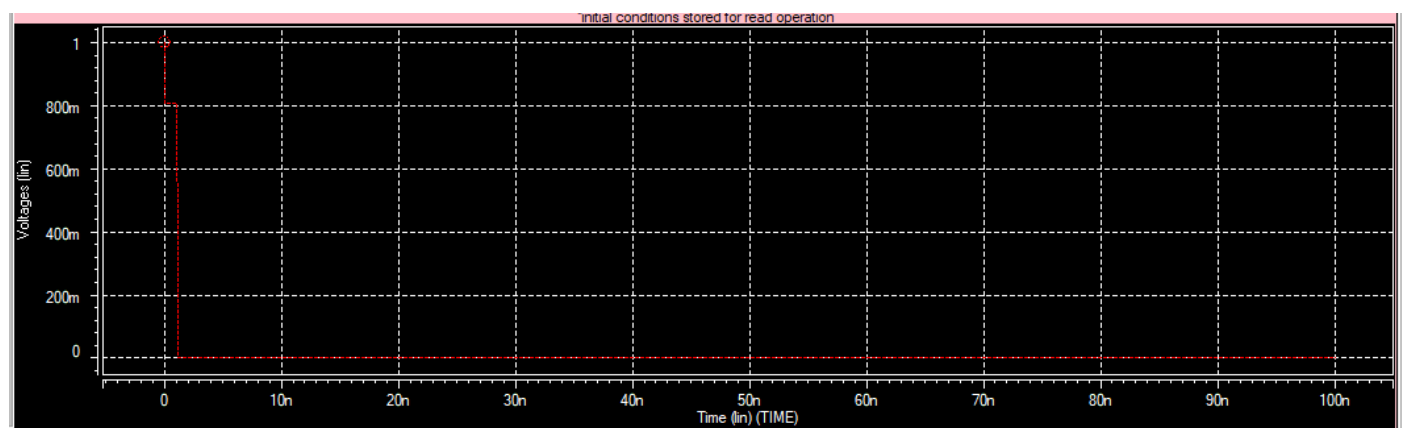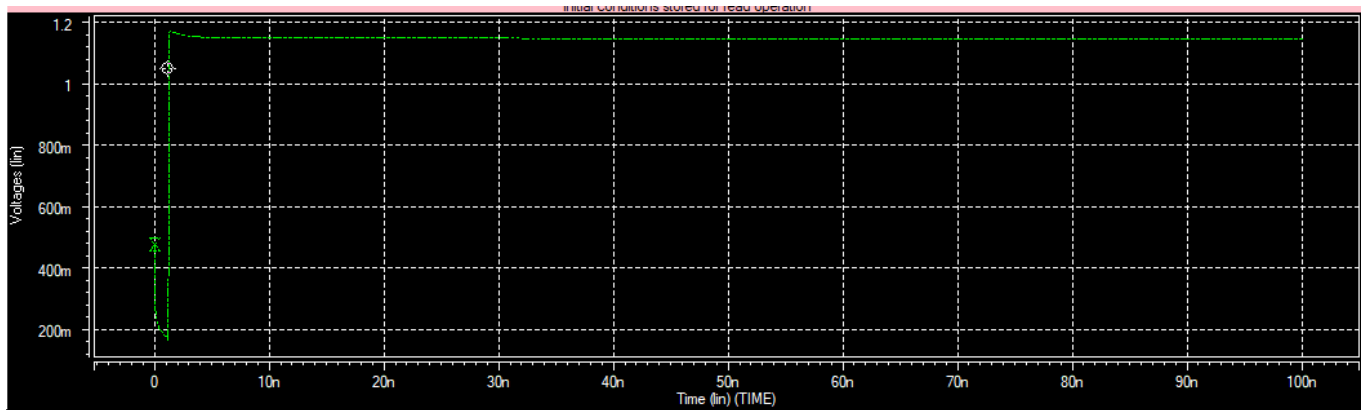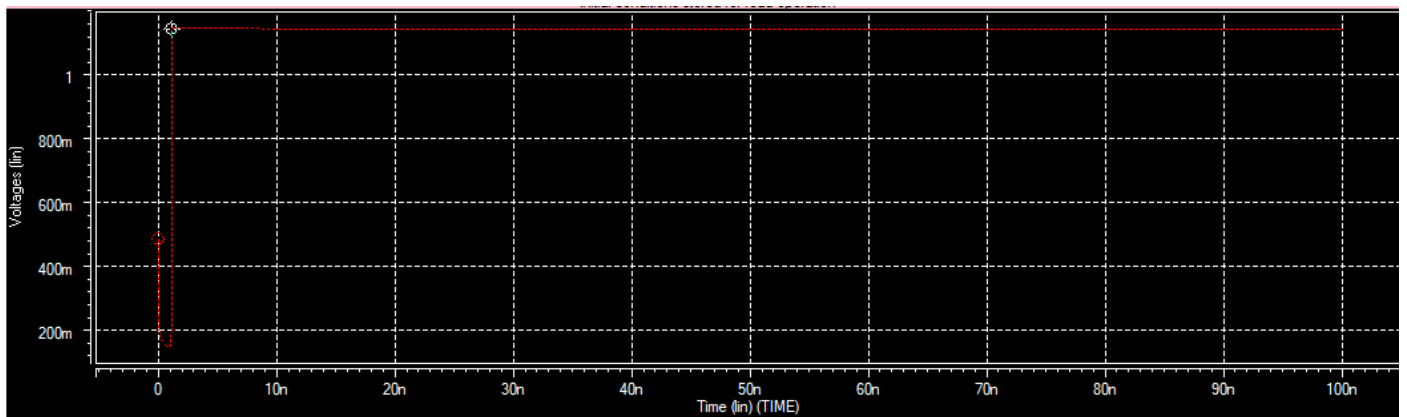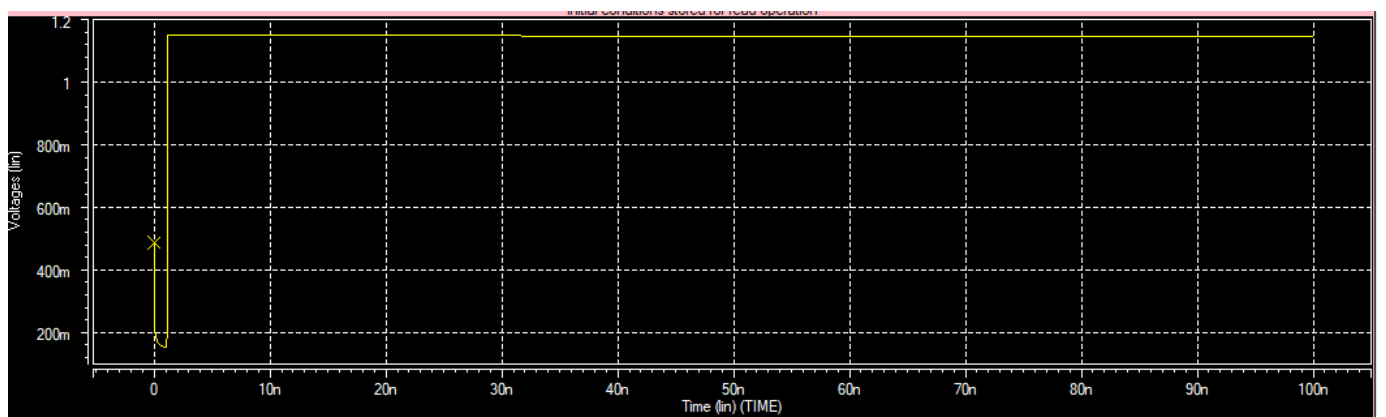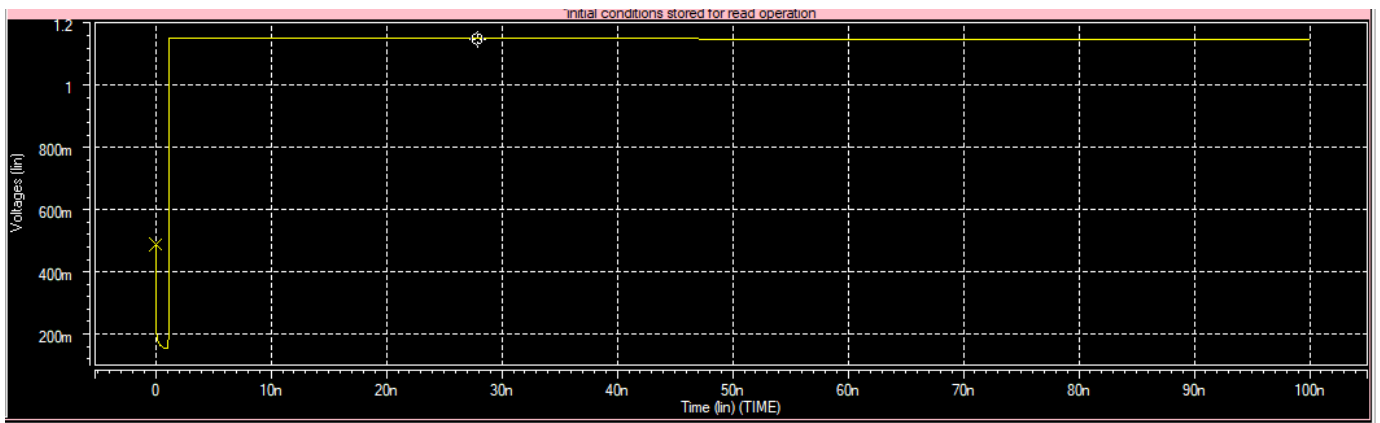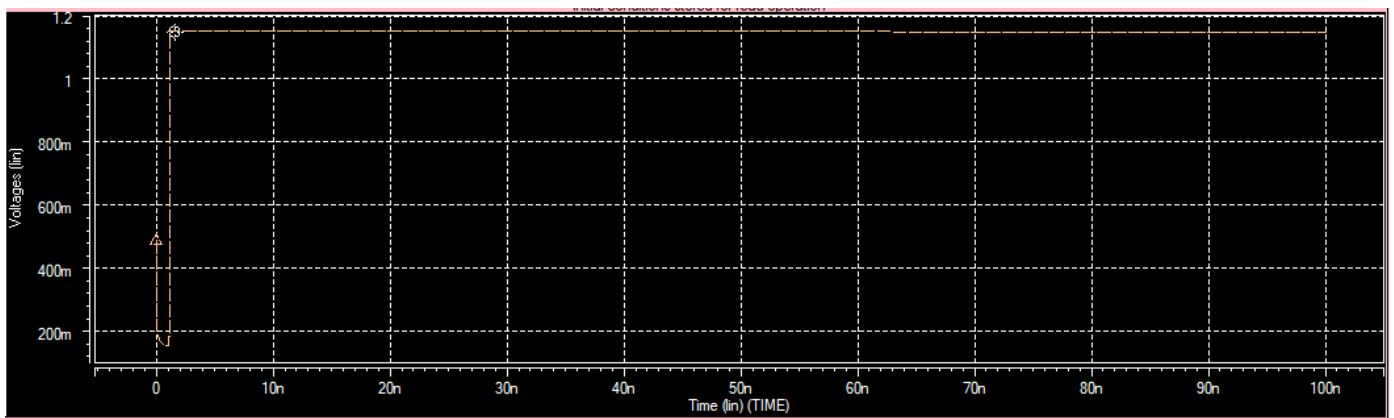

2. For W/L=2

3. For W/L=3

4. For W/L=4

5. For W/L=5

6. For W/L=6

Voltage Vt:

1. For W/L=1

2. For W/L=2

3. For W/L=3

4. For W/L=4

5. For W/L=5

6. For W/L=6