**== LogicCircuit ==**

**Report**

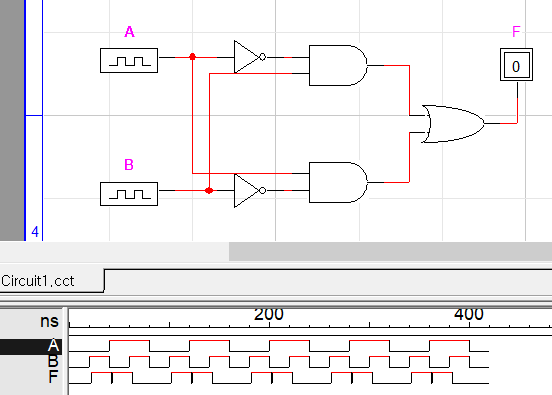
**<Assignment#4>**

**학과 :** 컴퓨터공학과

**학번 :** 20201100

**이름 :** 김태현

4-1.



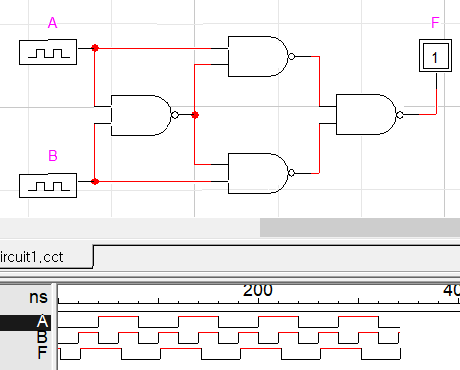
<논리식>

(A’\*B)+(A\*B’) = A’B+AB’

<진리표>

|  |  |  |
| --- | --- | --- |
| A | B | F |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

4-2.



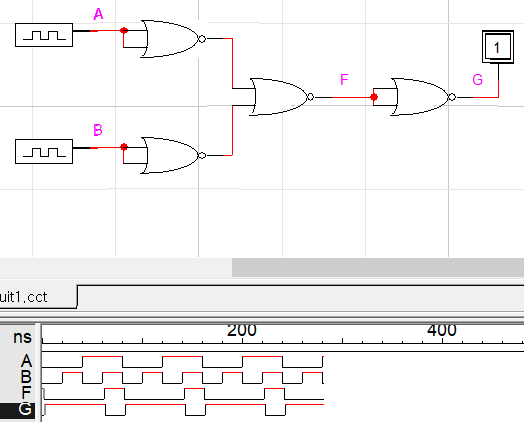
<논리식>

((A(AB)’)’\*(B(AB)’)’)’ =

<진리표>

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | F | G |
| 0 | 0 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 |

3-9.



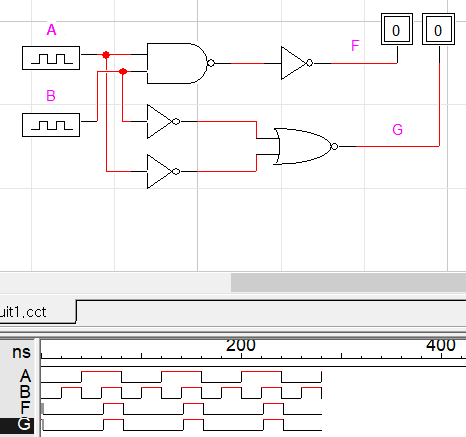
<논리식>

((A’+B’)’)’ = A’+B’ = (A\*B)’

<진리표>

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | F | G |
| 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 0 |

3-10.



<논리식>

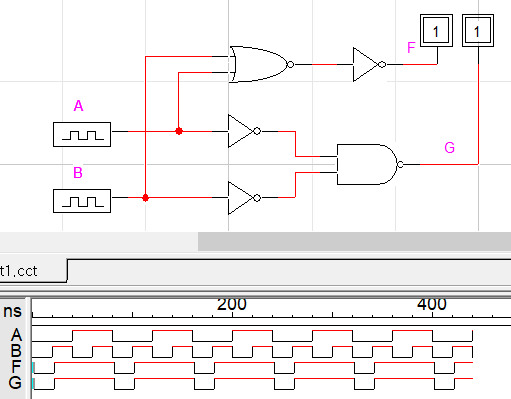
F = ((A\*B)’)’ = A\*B

G = (A’+B’)’ = ((A\*B)’)’ = A\*B

<진리표>

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | F | G |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 |

3-11.



<논리식>

F = ((A+B)’)’ = A+B

G = (A’\*B’)’ = ((A+B)’)’ = A+B

<진리표>

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | F | G |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 |