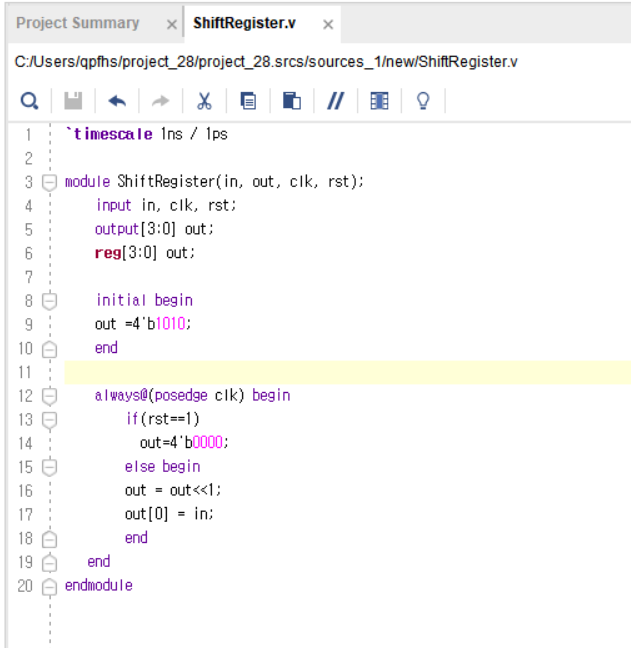
**13주차 결과보고서**

**전공: 생명과학과 학년: 4학년 학번: 20182186 이름: 김승원**

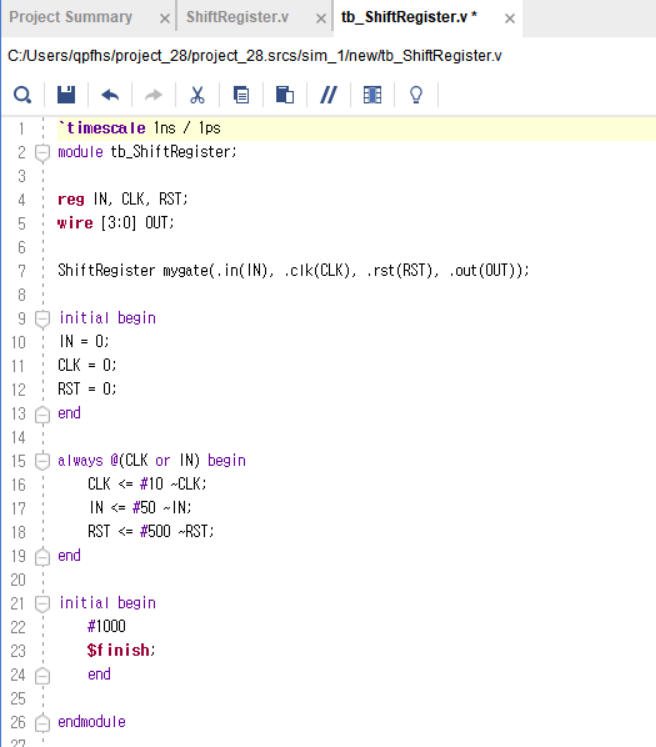
**1. 4-bit shift register의 결과 및 simulation 과정에 대해 설명하시오.**

**(verilog source, 출력 예시와 과정 상세히)**

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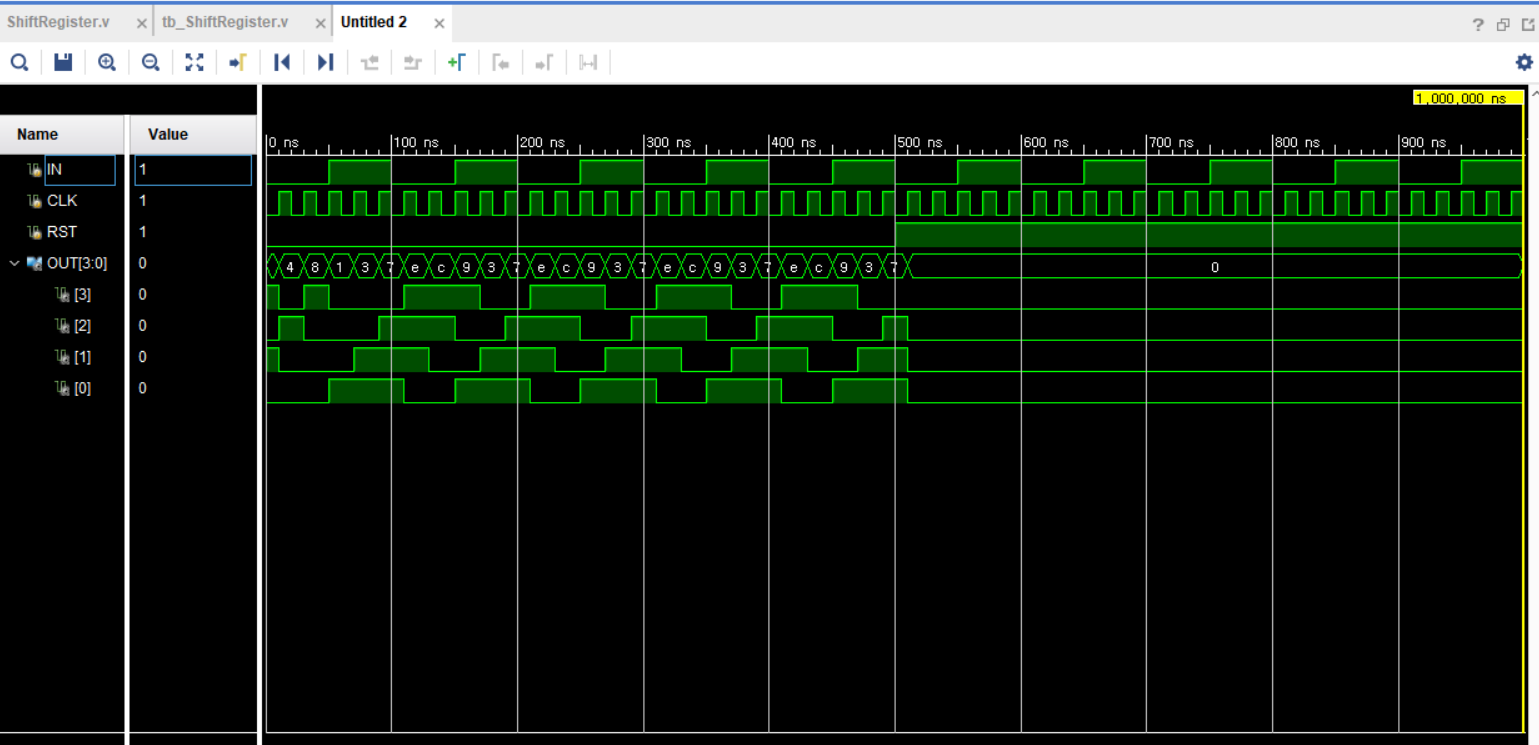
**<Figure 1. Shift register source code>**

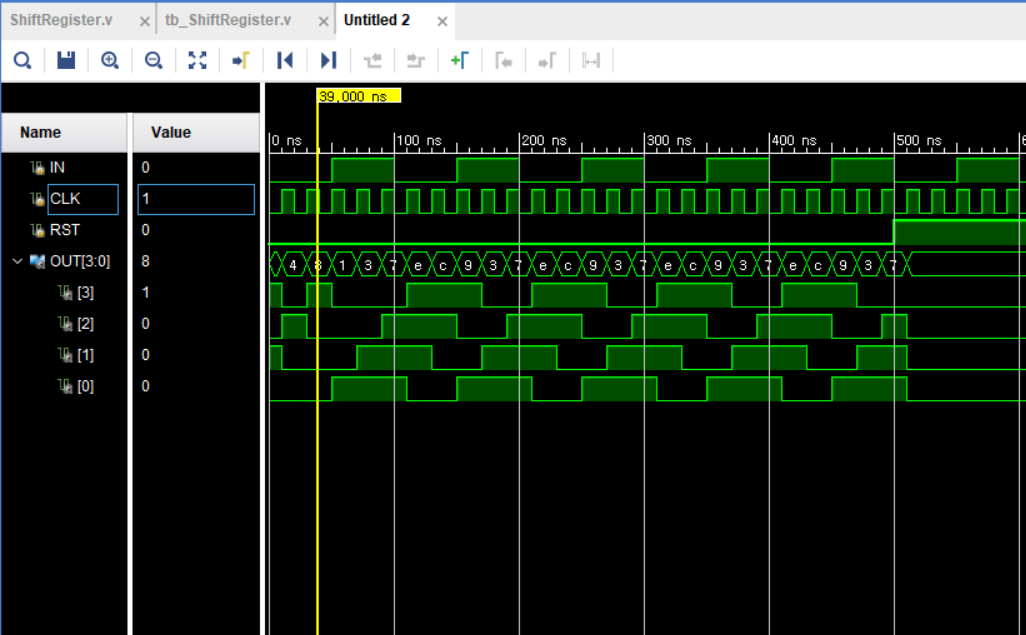
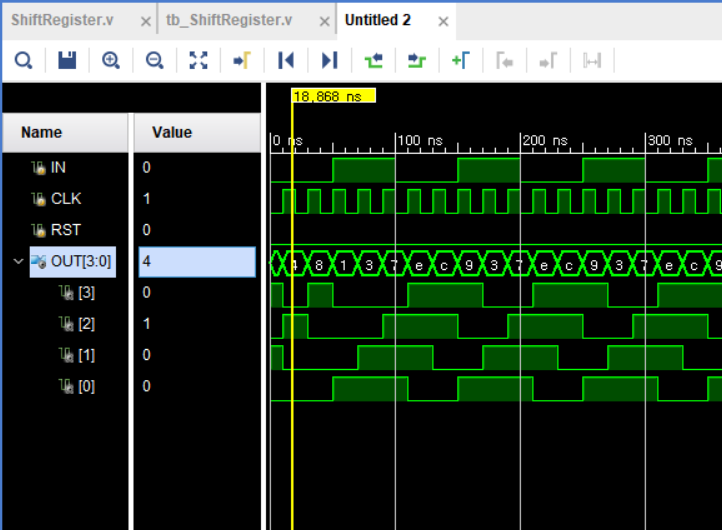
Shift register의 source code이다. 배열을 사용해서 출력 out을 정의했고, input으로 in, clk(clock), rst(reset) 변수를 설정했다. 초기값은 1010으로 설정했고, rising edge에서 값이 업데이트 되도록 posedge clk를 사용했다. 그리고 reset이 1인 경우 out 출력값이 0000으로 출력되도록 했다. Else문을 활용해 이외의 경우는 좌측으로 한 칸씩 이동할 수 있는 shift register를 설계했다. 이후 out[0] = in을 통해 input 입력을 받았고, 비는 값을 채워주었다.

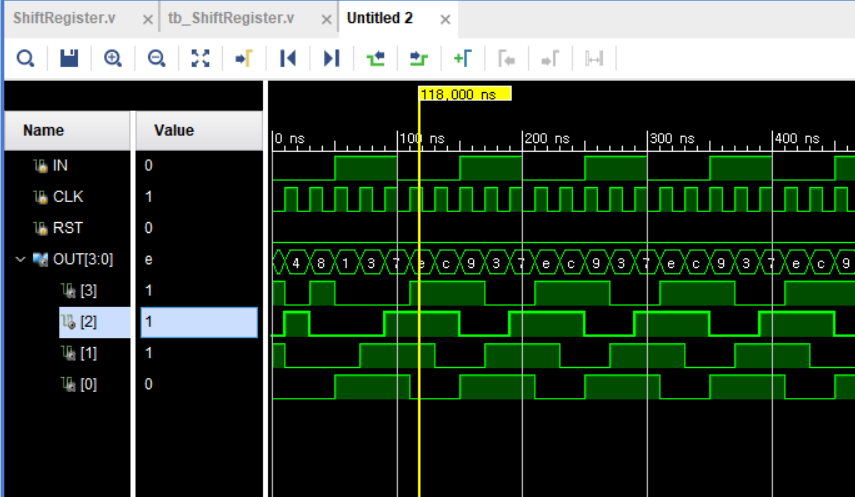
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**<Figure 2. Shift register의 simulation code>**

우선 IN, CLK, RST의 초기값은 0으로 시작되도록 했다. 10ns마다 CLK의 변화를 주었고, in 입력 또한 50ns 마다 변화를 주었다. Reset은 500ns 이후에 1신호로 변화를 주었다.





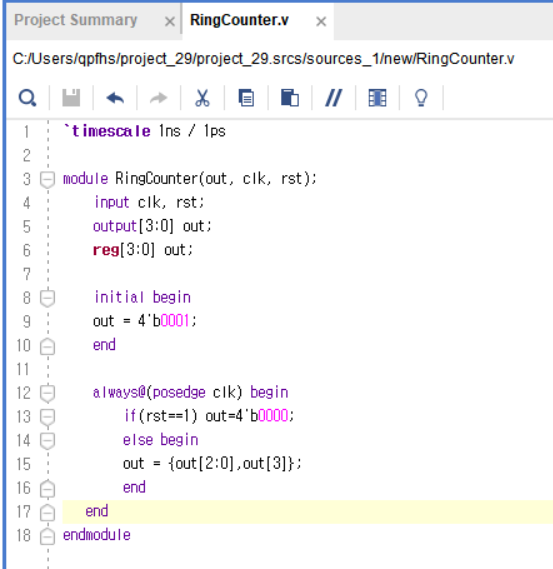
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**<Figure 3. Shift register의 simulation 결과>**

초기값은 1010으로 설정한대로 나왔다. 이후 좌측으로 1010 -> 0100 -> 1000으로 이동한 것을 확인했다. 이후 in 입력 값이 1로 들어오면서 rising edge에서 값이 업데이트 되어 0001->0011(in입력 1이 들어옴)-> 0111 -> 1100-> 1001과 같이 나타났다. In 입력 값이 1이 들어오면서 정확히 0001, 0010, 0100, 1000으로 이동하는 것은 simulation 결과로 얻지 못했지만, 0001 -> 0010 -> 0100 -> 1000으로 순서대로 비트의 이동이 확인됐다.

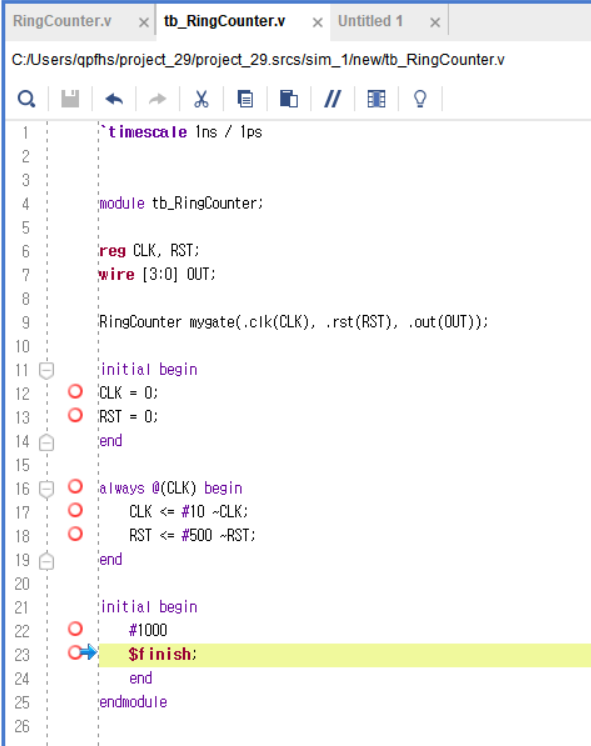
**2. 4-bit Ring counter의 결과 및 simulation 과정에 대해서 설명하시오.**

(verilog source, 출력 예시와 과정 상세히)

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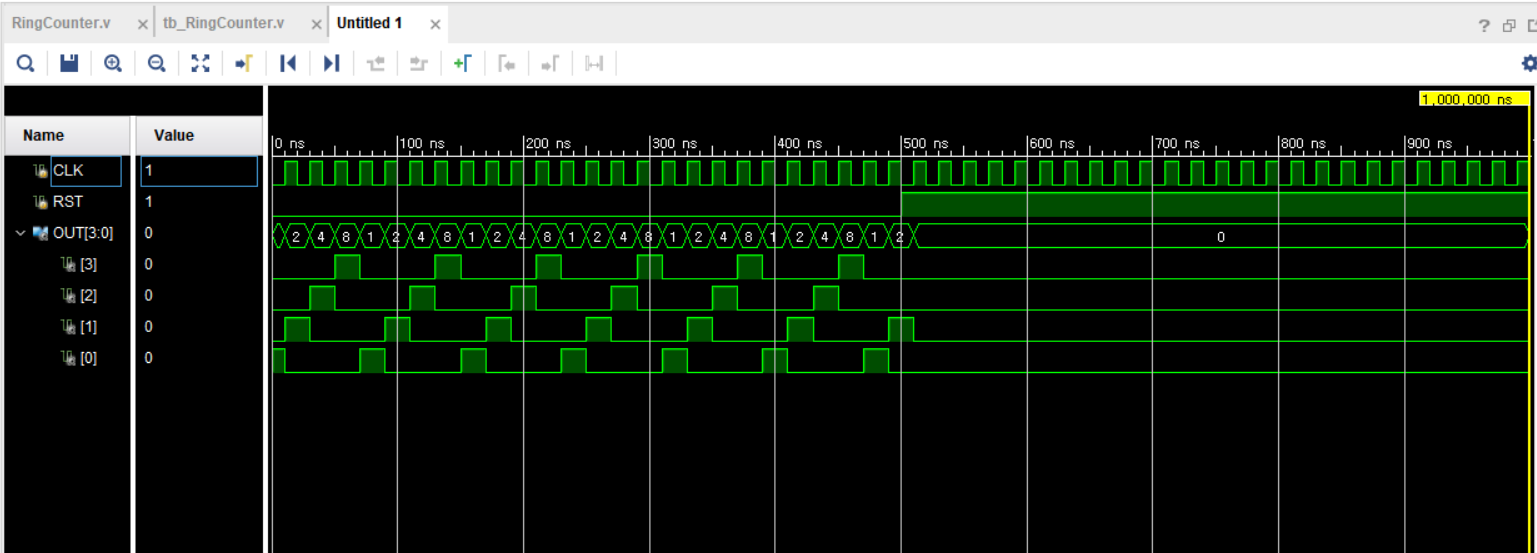
**<Figure 4. Ring counter source code>**

Ring counter의 source code이다. Input으로 clk(clock), rst(Reset) input을 입력했고, output으로 out을 배열을 사용해서 설정했다. 초기값은 0001로 설정하였고, posedge clk를 통해 rising edge에서 값이 업데이트 되도록 했다. Reset이 1인 경우는 0000으로 값을 고정했고, 이외의 경우에는 2주차의 {out[2:0], out[3]}결합 operator를 활용해서 0001, 0010, 0100, 1000, 0001, …로 순환하도록 설계했다.

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**<Figure 5. Ring Counter의 simulation code>**

Ring counter의 simulation code이다. Clk와 rst는 0으로 고정했고, 10ns마다 clk 변화를 줬다.

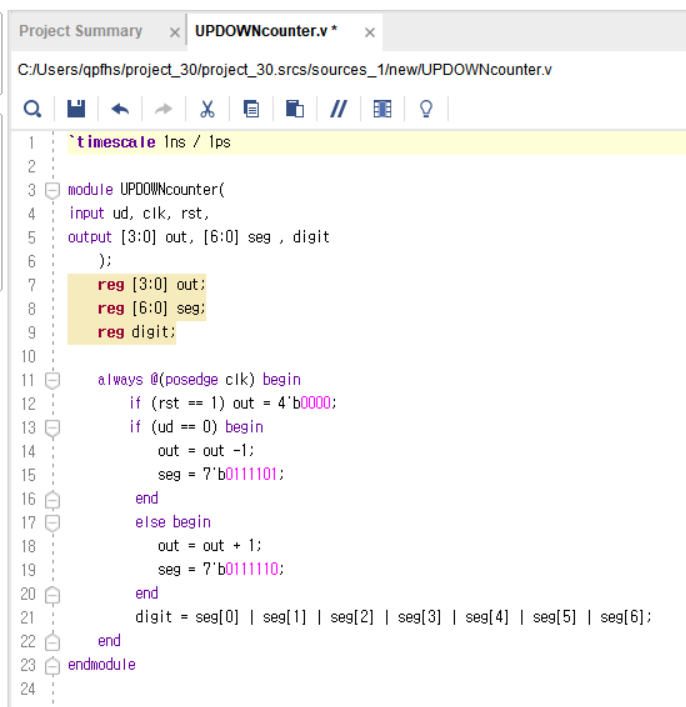
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**<Figure 6. Ring counter의 simulation 결과>**

Simulation 결과를 확인해보면, rising edge마다 transition이 일어나고 있고, Ring counter의 특징인 0001, 0010, 0100, 1000이 계속해서 순환되고 있음을 확인할 수 있다. 초기값 0001부터 시작해서 0010, 0100, 1000 이후 0001로 돌아간 다음 다시 앞의 과정이 반복된다. Simulation 결과 잘 구현 설계됐다고 판단된다.

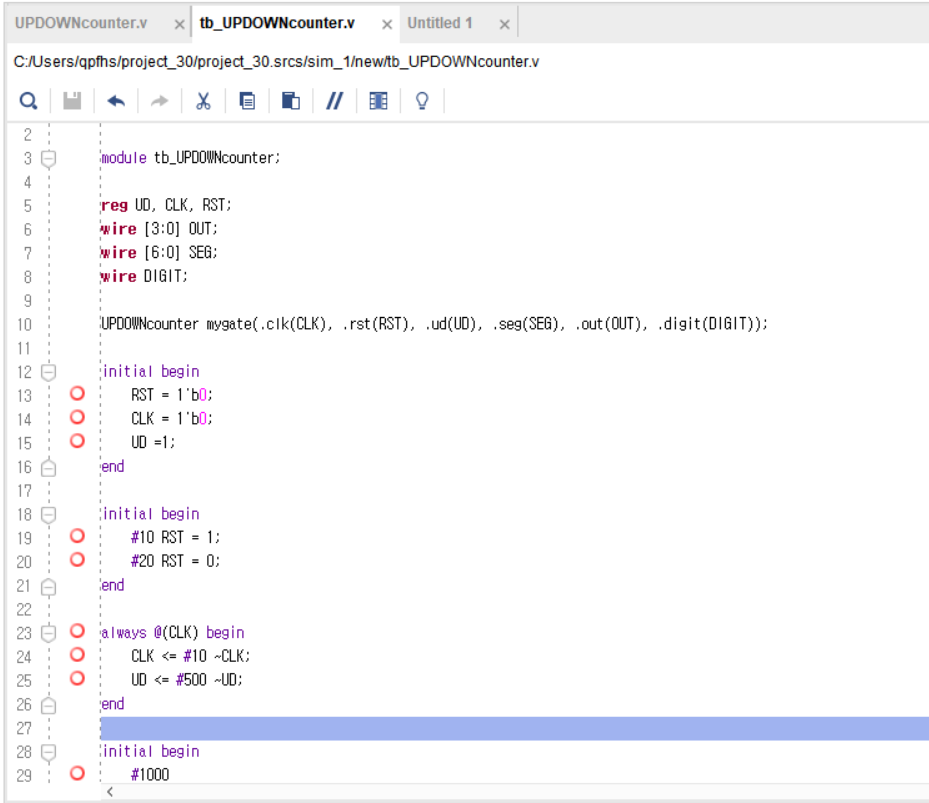
**3. 4-bit up/down counter의 결과 및 simulation 과정에 대해서 설명하시오.**

(verilog source, 출력 예시와 과정 상세히)

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**<Figure 7. UPDOWN counter의 source code>**

UPDOWN counter의 source code이다. Input은 ud, clk, rst으로 설정했고, Output은 out, seg, digit으로 설정했다. Rst가 1인경우 0000으로 값을 고정했고, 이외의 경우 ud input이 0인 경우 down counter가 되도록 설계했고, segment에 d로 표시되도록 seg = 7’b0111101;을 통해 구현했다. 또한, ud input이 1인 경우 up counter가 되도록 했고, 7 segment 앞에 u로 표시되도록 seg= 7b’0111110;을 설정해주었다. Digit의 경우 seg[0]부터 [6]까지 모두 더한 값이 되도록 했다.

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**<Figure 8. UPDOWN counter의 Simulation code>**

UPDOWN counter의 simulation을 위한 code이다.

**![텍스트, 전자기기이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gOyImOyglQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzYAAJKSAAIAAAADMzYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**<Figure 9. UPDOWN counter의 simulation 결과>**

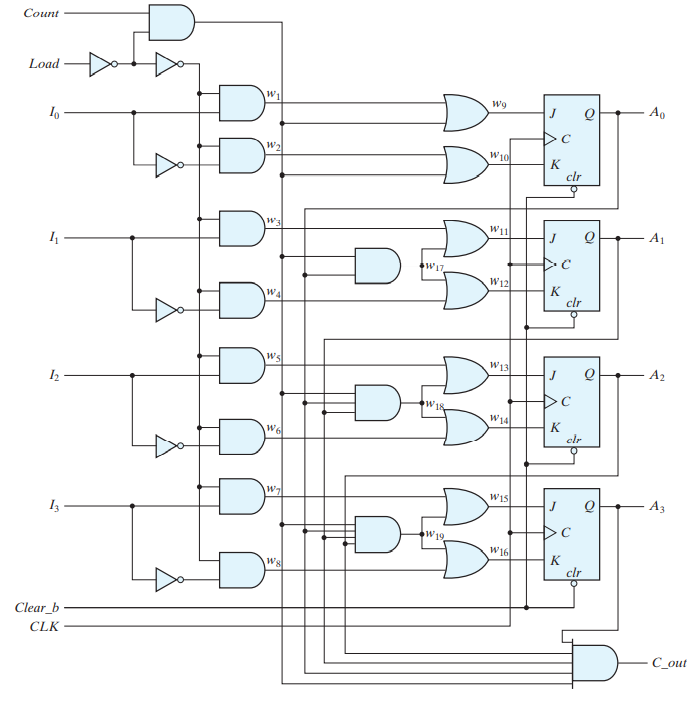
우선 결과를 확인해보면, 0~500ns동안은 UP counter의 역할을 하도록 했다. 따라서 Output의 out 결과를 보면, 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111이 되도록 한 다음 0000으로 돌아가고 다시 반복되도록 했다. 500ns 이후에는 UD input 값을 0으로 줘서 DOWN counter의 역할을 하도록 했다. 따라서 1001부터 시작하여 1000, 0111, 0110, 0101, 0100, 0011, 0010, 0001, 0000, 1111, … 로 반복되도록 설계했다. seg로는 Up의 u와 Down의 d를 표현하기 위하여 사용했다. 또한 rising edge마다 output값이 업데이트 된 것을 확인할 수 있다.

**4. 결과 검토 및 논의 사항**

Shift register, Ring counter, up/down counter 모두 Simulation을 확인한 결과 모두 제대로 구현됐 음을 확인했다. Shift register의 경우, shift 연산자를 사용해서 비트를 옮겼다. 실험에서는 좌측으로 비트를 옮겼으나, shift연산자를 반대로 사용하면 우측으로 비트를 옮길 수 있을 것으로 생각된다.

Ring counter의 경우 Ring counter의 특징인 0001, 0010, 0100, 1000이 계속해서 순환되고 있음을 확인할 수 있었고, Up/down counter 또한 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111이 되도록 한 다음 0000으로 돌아가고 다시 반복되도록 잘 구현됐다. 500ns 이후에는 Down counter가 될 수 있도록 ud input의 값을 0으로 설정하여 simulation 결과를 확인했고, down counter 또한 잘 작동함을 확인했다.

**5. 추가 이론 조사 및 작성**



**<Figure 10. 4bit up/down binary counter>**

실제 up/down binary counter 회로도 모습이다. Up/down counter 모두 기능을 할 수 있는 회로이다. 위의 그림과 같이 플립플롭을 사용하여 상향과 하향이 모두 가능한 counter를 설계할 수 있다. 이러한 회로는 up, down 제어입력을 가지며, up input과 down input의 입력에 따라 up counter 기능을 할지 down counter로 기능을 할지 결정된다.