

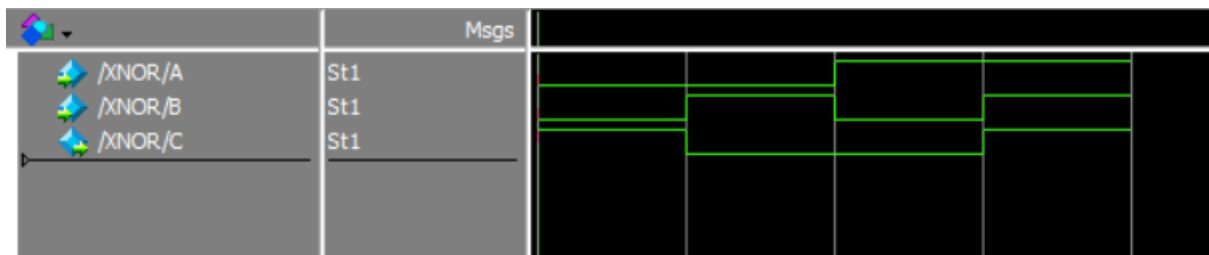
Assignment 1

Q1)

Code:

```
1 module XNOR(input A, B, output C);
2
3
4 assign C = ~(A ^ B);
5
6 endmodule
```

Waveform:



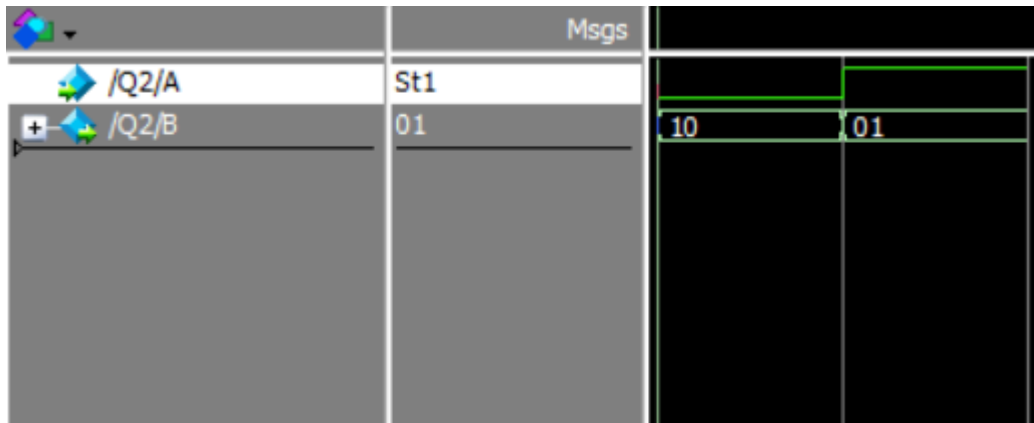
Function: XNOR

Q2)

Code:

```
1 module Q2 (input A, output[1:0] B);
2
3
4 assign B = (A == 1)? 2'd1 : 2'd2;
5
6 endmodule
```

Waveform:



Q3)

```
1 module Q3(input[1:0] A,input C, output B );
2
3 assign B = (A == 2'b01) ? C :(A == 2'b10) ? ~C : 1'b0;
4
5 endmodule
```

Waveform:

