



## **SpyGlass Lab**

## A-Linting

- 1- Mention the major violations linting tool can detect.
- 2- Mention the error that appeared after running linting goals for these codes and mention how will you fix them.

a-  

```
always @ (*)  
a = a & b;
```

b-  

```
always @ (posedge clk)  
if (a > b)  
    c <= a;
```

c-  

```
always @ (posedge clk)  
if (a > b)  
    c <= a;  
c <= b;  
else  
    c <= c;
```

d-  

```
wire [3:0] a;  
wire [7:0] b;  
assign a = b;
```

e-  

```
input A;  
input B;  
output C;  
  
assign C = A;
```

f-  

```
A = 32'bx;
```

g-  

```
reg [1:0] v;  
case (v)  
    00: x = 1  
    10: x = 0  
endcase
```

h-  

```
assign out = en ? in : out;  
or  
assign a = en ? z : c;  
assign z = en ? a : y;
```

```
always @(posedge clk or posedge rst)
begin
    if(rst)
        out1 <= 0;
    else
        out1 <= in;
    end
always@(posedge clk)
begin
    if(rst)
        out2 <= 0;
    else
        out2 <= in;
    end
end
```

## B- CDC

Run the attached file of CDC Example and it's SGDC file and solve the errors that you find.