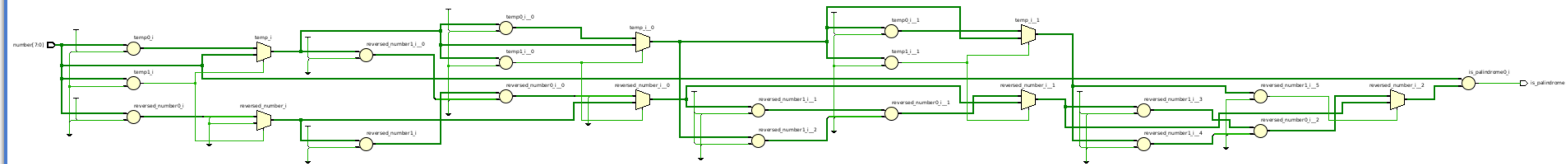


Tcl Console x Messages Log

Q [Run] [Pause] [Step Back] [Step Forward] [Add] [Remove] [Reset] [Exit]

```
# }
# run 1000ns
Time    Number  Is_Palindrome
10000   123      0
20000   27       0
30000   121      1
$finish called at time : 30 ns : File "/home/itzzinfinity/Cozy Drive/100daysofRTL/day_079/
INFO: IUSE YSim 061 YSim completed. Design snapshot 'tb_palindrome_checker_behav' loaded.
```

Type a Tcl command here



/home/itzzinfinity/Cozy Drive/100daysofRTL/day_079/project_1/project_1.srscs/sources_1/new/palindrome_ch



```
1  `timescale 1ns / 1ps
2  //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
3  // Engineer: Anjan Prasad
4  // Create Date: 12/09/2024 07:04:44 AM
5  // Module Name: palindrome_checker
6  //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
7
8  module palindrome_checker (
9      input [7:0] number,
10     output reg is_palindrome // Output: 1 if palindrome, 0 otherwise
11 );
12
13     reg [7:0] reversed_number;
14     reg [7:0] temp;
15     reg [3:0] i;
16     integer digit;
17
18     always @(*) begin
19         reversed_number = 0;
20         temp = number;
21
22         for (i = 0; i < 4; i = i + 1) begin
23             if (temp > 0) begin
24                 digit = temp % 10;
25                 reversed_number = (reversed_number * 10) + digit;
26                 temp = temp / 10;
27             end
28         end
29
30         // Check if the number is equal to its reversed version
31         if (number == reversed_number)
32             is_palindrome = 1;
33         else
34             is_palindrome = 0;
35     end
36 endmodule
37
```