

```
1  module Arquitetura (  
2      input wire clk50,  
3      input wire movUp, movDown, movLeft, movRight,  
4  
5      output wire clk25, Hsync, Vsync,  
6      output wire syncVGA, blankVGA,  
7      output wire [7:0] R,G,B  
8  );  
9  
10  
11     wire clk50Out;  
12     wire movUpOut, movDownOut, movLeftOut, movRightOut;  
13     Entrada inst01(clk50, movUp, movDown, movLeft, movRight, clk50Out, movUpOut,  
14     movDownOut, movLeftOut, movRightOut);  
15     Sistema inst02(clk50Out, movUpOut, movDownOut, movLeftOut, movRightOut, clk25, Hsync,  
16     Vsync, syncVGA, blankVGA, R,G,B);  
endmodule
```