

```
1  module saida (  
2      input wire clock50MHz, clock500Hz, reset,  
3  
4      input wire[3:0] AddressIn, DataIn, KeypadDataIn,  
5      input [1:0] PresentStateFlag,  
6  
7      output wire RS,RW,  
8      output wire E,  
9      output wire[7:0] DB,  
10     output wire LCD_Blon, LCD_On  
11 );  
12  
13 assign LCD_Blon = 1'b1;  
14 assign LCD_On = 1'b1;  
15  
16 wire[4:0] DisplayAddr;  
17 wire[7:0] Phrase;  
18 PhraseBank inst01 (clock50MHz, DisplayAddr, AddressIn, DataIn, KeypadDataIn,  
    PresentStateFlag, Phrase);  
19  
20 DisplayControlUnit inst02 (clock500Hz, reset, Phrase, DisplayAddr, RS, RW, E, DB);  
21  
22 endmodule
```