

```
1  module hex1 (bcd, leds);
2      input  logic [2:0] bcd;
3      output logic [6:0] leds;
4
5      always_comb begin
6          case (bcd)
7              // Light:
8              4'b000: leds = 7'b0101111; // beer
9              4'b001: leds = 7'b0001100; // chip
10             4'b011: leds = 7'b0100001; // seed
11             4'b100: leds = 7'b0000110; // cafe
12             4'b101: leds = 7'b1000111; // juul
13             4'b110: leds = 7'b0001000; // soda
14             default: leds = 7'bx;
15         endcase
16     end
17 endmodule
18
19 module hex2 (bcd, leds);
20     input  logic [2:0] bcd;
21     output logic [6:0] leds;
22
23     always_comb begin
24         case (bcd)
25             // Light:
26             4'b000: leds = 7'b0000110; // beer
27             4'b001: leds = 7'b1111001; // chip
28             4'b011: leds = 7'b0000110; // seed
29             4'b100: leds = 7'b0001110; // cafe
30             4'b101: leds = 7'b1000001; // juul
31             4'b110: leds = 7'b0100001; // soda
32             default: leds = 7'bx;
33         endcase
34     end
35 endmodule
36
37 module hex3(bcd, leds);
38     input  logic [2:0] bcd;
39     output logic [6:0] leds;
40
41     always_comb begin
42         case (bcd)
43             // Light:
44             4'b000: leds = 7'b0000110; // beer
45             4'b001: leds = 7'b0001011; // chip
46             4'b011: leds = 7'b0000110; // seed
47             4'b100: leds = 7'b0001000; // cafe
48             4'b101: leds = 7'b1000001; // juul
49             4'b110: leds = 7'b1000000; // soda
50             default: leds = 7'bx;
51         endcase
52     end
53 endmodule
54
55 module hex4 (bcd, leds);
56     input  logic [2:0] bcd;
57     output logic [6:0] leds;
58
59     always_comb begin
60         case (bcd)
61             // Light:
62             4'b000: leds = 7'b0000011; // beer
63             4'b001: leds = 7'b1000110; // chip
64             4'b011: leds = 7'b0010010; // seed
65             4'b100: leds = 7'b1000110; // cafe
66             4'b101: leds = 7'b1100001; // juul
67             4'b110: leds = 7'b0010010; // soda
68             default: leds = 7'bx;
69         endcase
70     end
71 endmodule
```