

CLASS TEST 01

DESIGN THE DICE GAME USING VERILOG CODE.

DICE GAMES

Three (3) push buttons are connected to three select lines of the 8X1 Multiplexer. The output of the 8X1 Multiplexer is connected to the display with 7 LEDs.

RULES:

- You have to press at least 1 push button.
- You must not press more than 2 push buttons.

This game is built on *two* fundamental operations:

1. According to switches pressed by the player, one (1) of the eight (8) outputs will be selected.
2. According to the output of the 8X1 multiplexer, several LEDs (*a, b, c, d, e, f, g*) will be either *ON/OFF* that is shown in Figure 2. [*GREEN* indicates *ON* and *RED* indicates *OFF*].

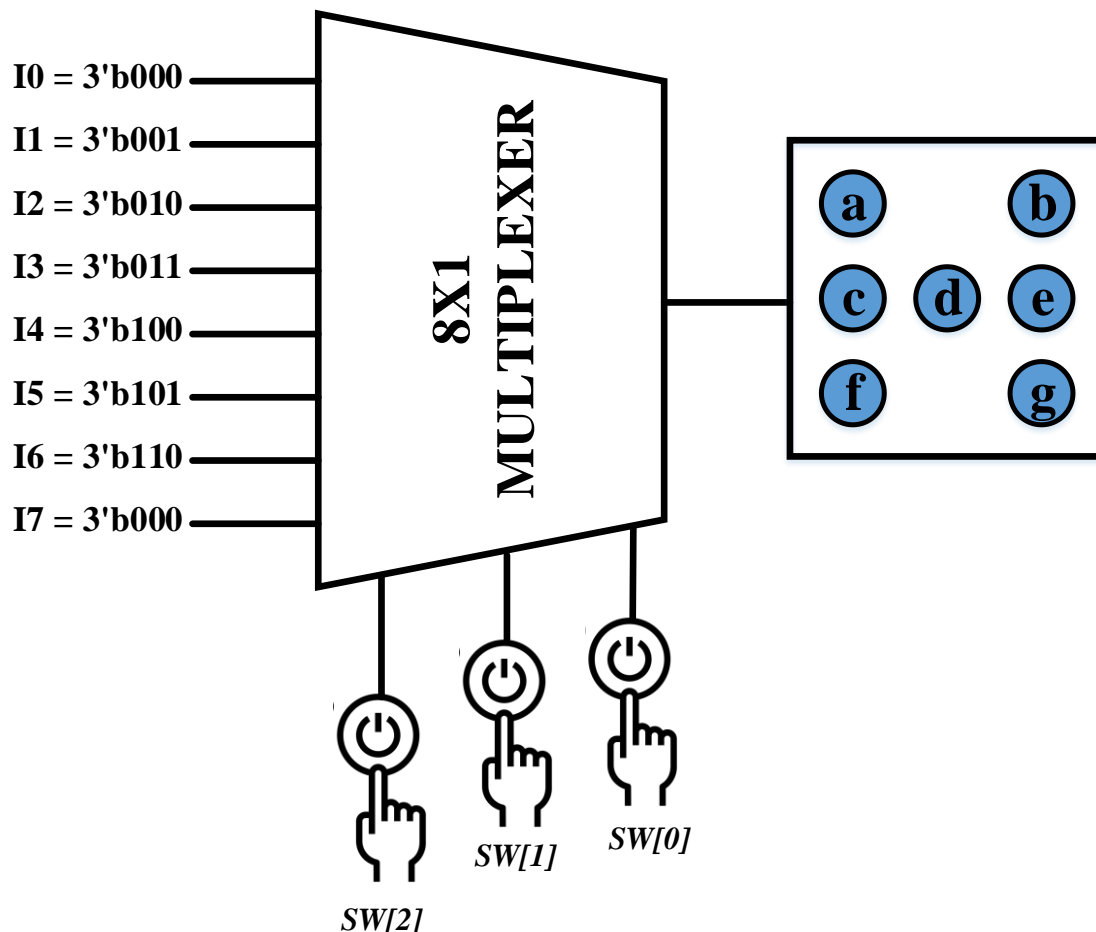


Figure. 1

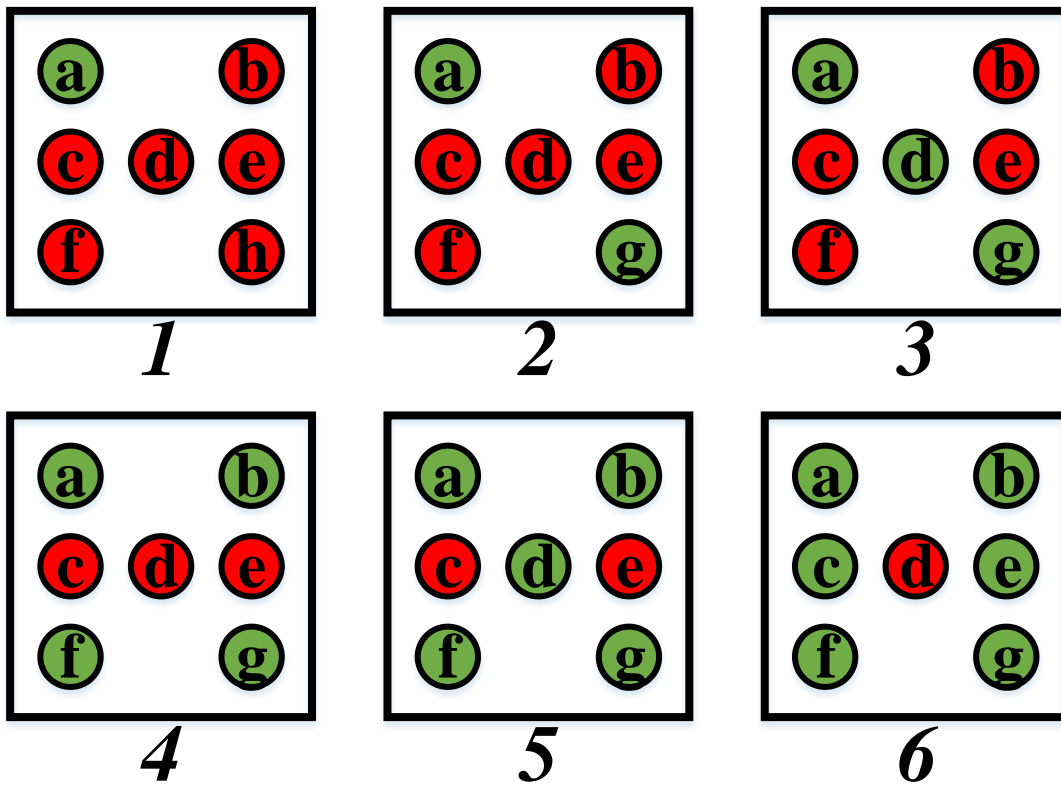


Figure. 2