

Họ tên: Dương Anh Khôi

MSSV: 22520696

Code:

```
`timescale 1 ns / 100 ps
module Lab2_22520696_DuongAnhKhoi_Tester();

    reg [2:0] loaddata;
    reg loadEn;
    reg clk;
    wire [2:0] count;
    initial begin
        clk=0;
        loadEn = 0;
        loaddata = 3'b000;

        // In ra header cho việc giám sát
        $display("Time\tloadEn\tloaddata\tcount");
        $monitor("%0t\t%b\t%d\t%d", $time, loadEn, loaddata, count);

        #10 loadEn = 1; loaddata = 3'b011;
        #10 loadEn = 0;

        #200;

        loadEn = 1; loaddata = 3'b001;
        #10 loadEn = 0;
```

```
#200;
```

```
    loadEn = 1; loaddata = 3'b101;
```

```
#10 loadEn = 0;
```

```
#200;
```

```
    #50 loadEn = 1; loaddata = 3'b000;
```

```
#10 loadEn = 0;
```

```
#200;
```

```
    // Kết thúc mô phỏng
```

```
$display("Testbench completed");
```

```
$finish;
```

```
end
```

```
    always #26.5 clk = ~clk;
```

```
    Lab2_22520696_DuongAnhKhoi U1(loaddata, loadEn, clk, count);
```

```
endmodule
```

Mô phỏng:

