

27.4.18

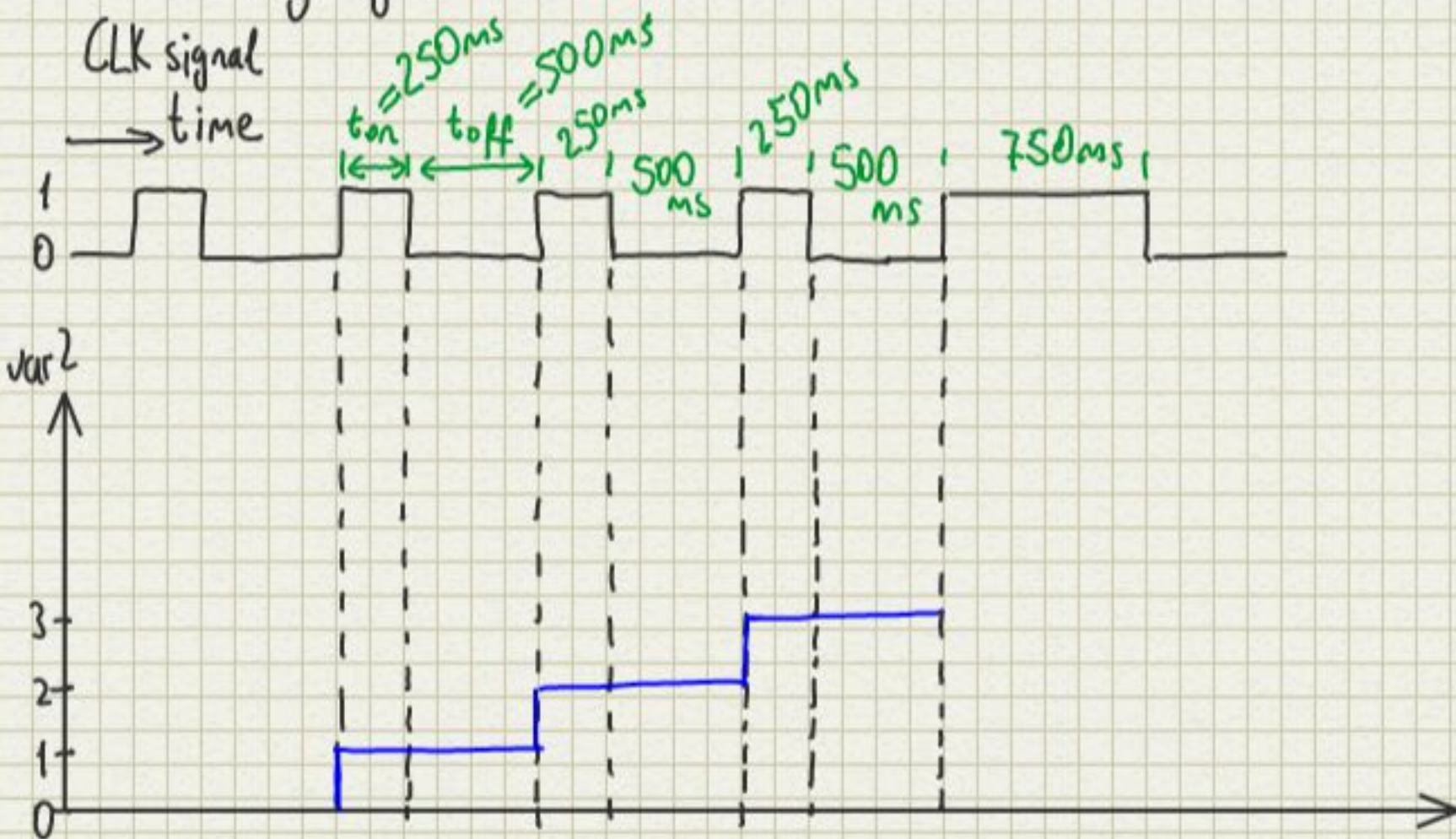
# Structured Text

```
PROGRAM //start
```

```
...
```

```
END_PROGRAM //end
```

Blinking light ex.





Stairways ex.

C	B	A	Y	Y <sub>1</sub>	Y <sub>2</sub>	Y <sub>3</sub>	Y <sub>4</sub>
0	0	0	0	0	0	0	0
0	0	1	1	1	0	0	
0	1	0	1		1	0	
0	1	1	0			0	
1	0	0	1			1	
1	0	1	0				
1	1	0	0				0
1	1	1	1				1

$$Y_1 = A \wedge \bar{B} \wedge \bar{C}$$

$$Y_2 = \bar{A} \wedge B \wedge \bar{C}$$

$$Y_3 = \bar{A} \wedge \bar{B} \wedge C$$

$$Y_4 = A \wedge B \wedge C$$

$$Y = Y_1 \vee Y_2 \vee Y_3 \vee Y_4$$



PROGRAM class-example;

VAR

A: BOOL;

B:

C:

Y1: "

Y2:

Y3:

Y4:

Y:

END\_VAR

=====

Y1 := A AND NOT b AND NOT c;

Y2 := NOT a AND b AND NOT c;

Y3 := NOT a AND NOT b AND c;

Y4 := a AND b AND c;

Y := Y1 OR Y2 OR Y3 OR Y4;