Instead of square box shown in Fig. 1;

- use XOR gate if last digit of your school number is one of 0, 1, 2 or 3
- use AND gate if last digit of your school number is one of 4, 5 or 6,
- use NAND gate if last digit of your school number is one of 7, 8 or 9.

1. Find the Boolean function for the output G shown in Fig. 1.
2. Write the sum of product (SOP) representation of the the Boolean function for the output G.
3. Fill in Table 1

Table 1

$x_3x_2x_1x_0$	G
0101	
1010	
0011	

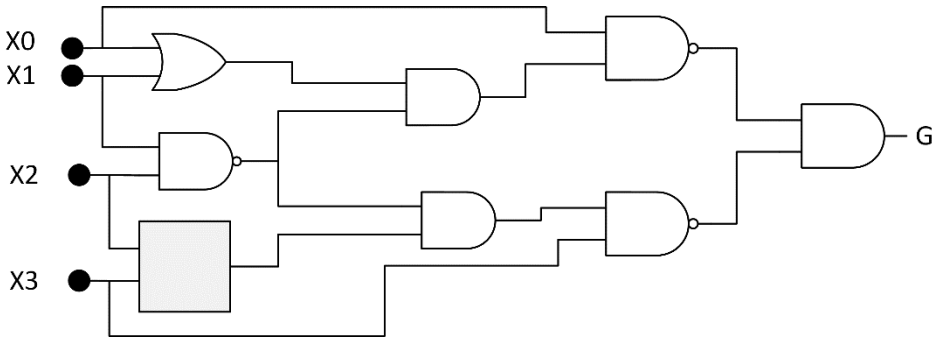

Figure 1