

Sri Lanka Institute of Information Technology



**Lab Submission  
<Worksheet No.4>**

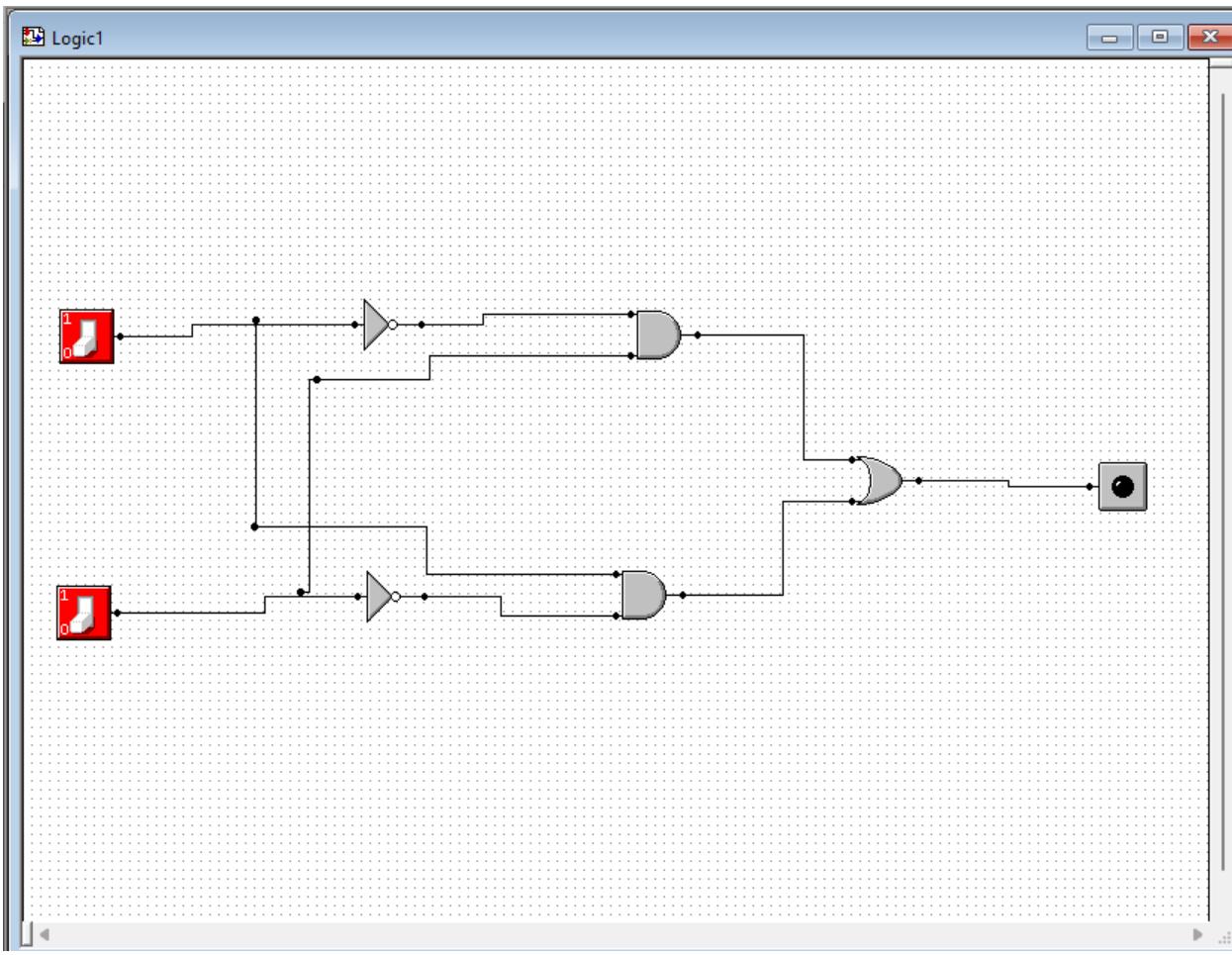
**<IT247102555>**

**<Weerathunga B.A>**

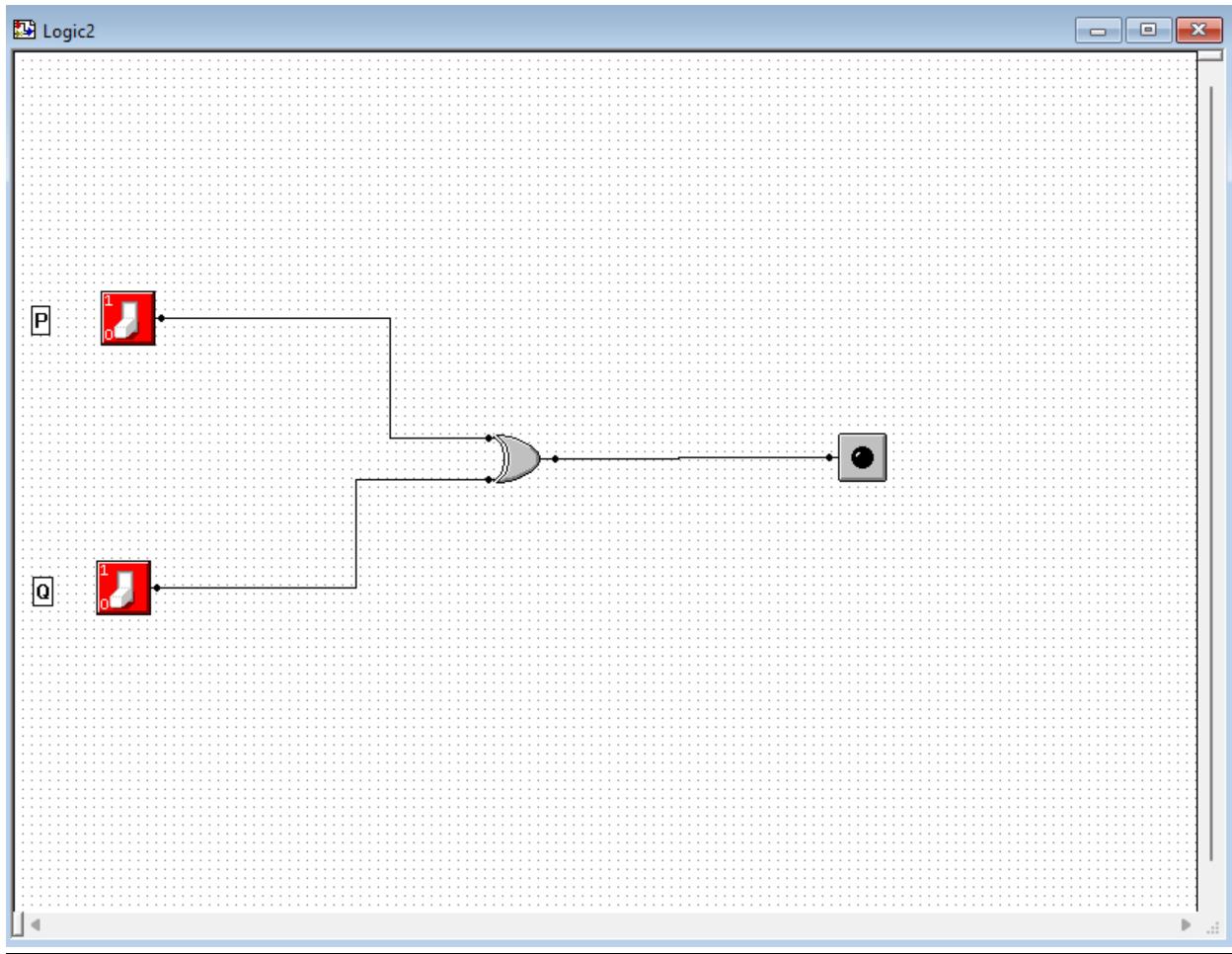
**Fundamentals of Computing | IT1140**

B.Sc. (Hons) in Information Technology

### **Activity 01**



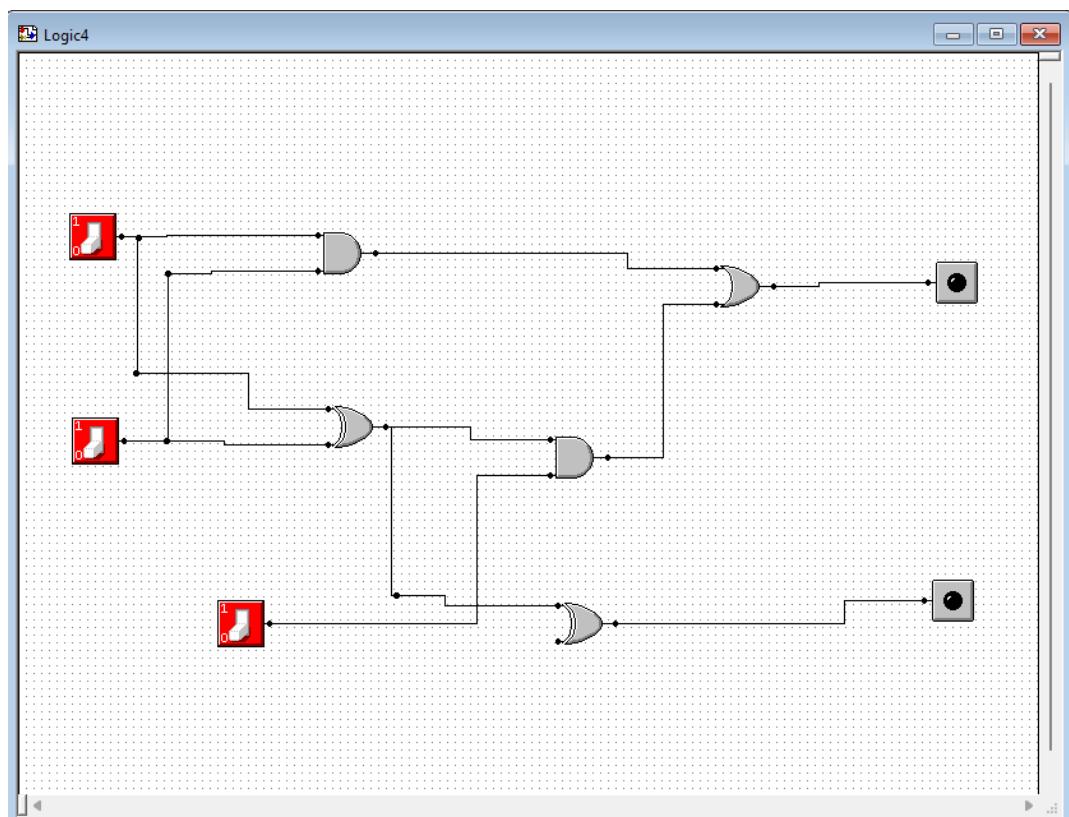
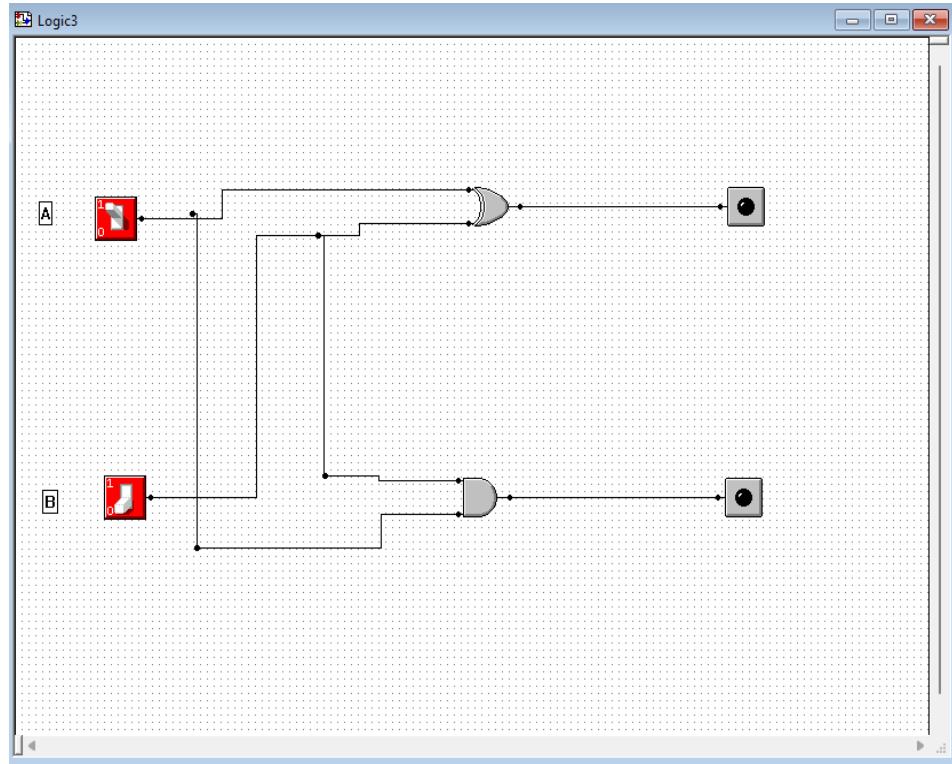
A	B	F
0	0	0
0	1	1
1	0	1
1	1	0



A	B	F
0	0	0
0	1	1
1	0	1
1	1	0

c) a) and b) are the same output

## Activity 02



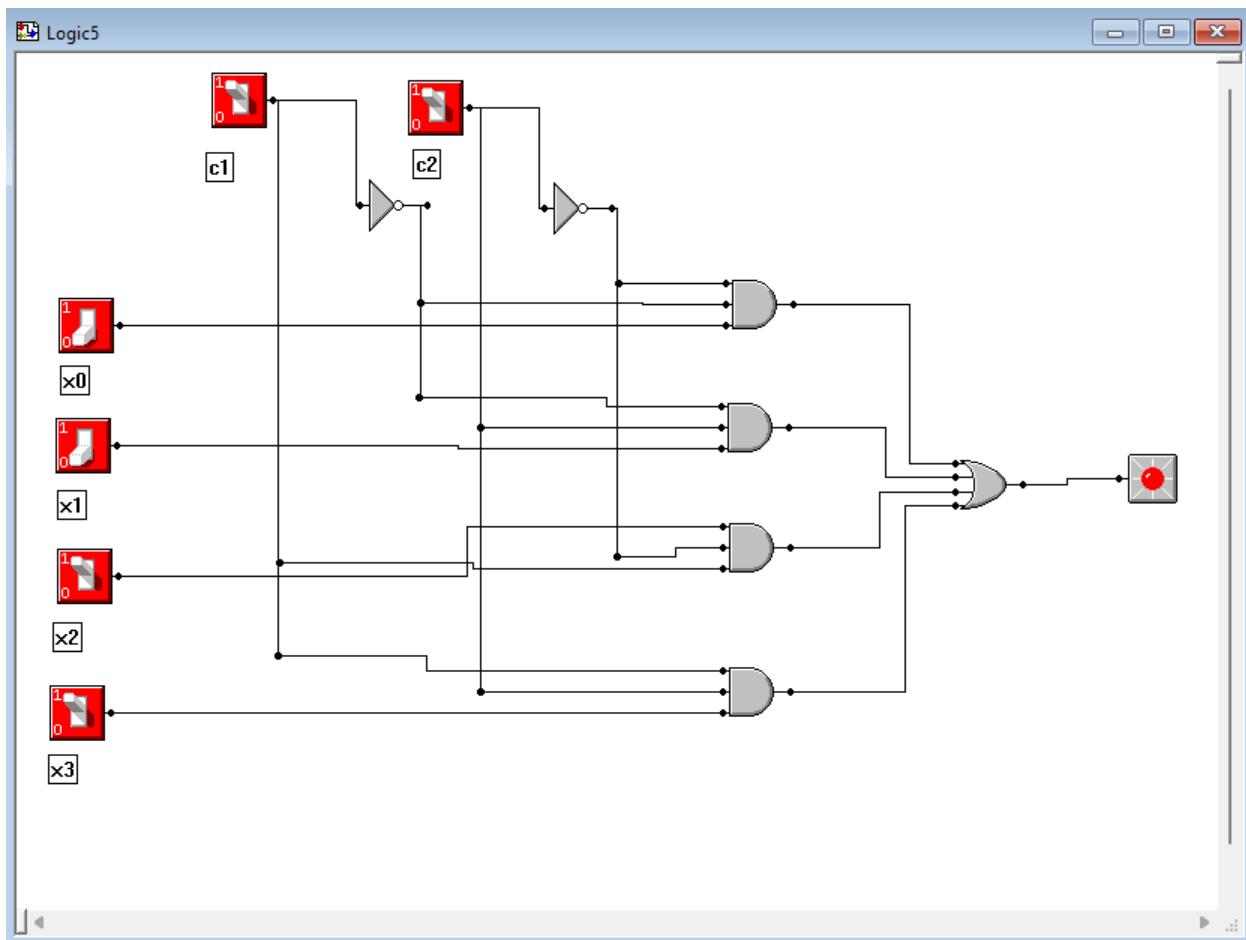
b) 4.2-half adder

Purpose – adding together the two least significant digits in a binary

4.3-full adder

Purpose- to calculate the sum of three binary digits

**Activity 03**



C0	C1	F
0	0	X0
0	1	X1
1	0	X2
1	1	X3