

Experiment # 9

Design of Asynchronous Sequential circuit

1- INTRODUCTION:

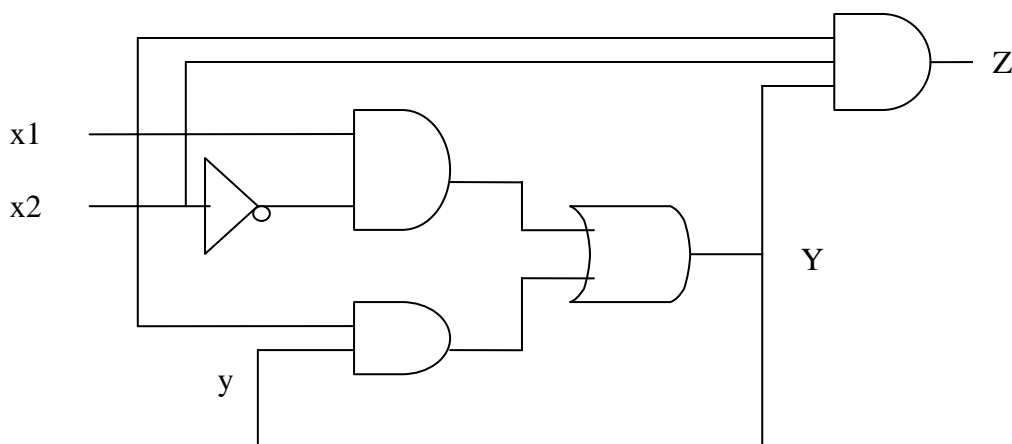
In this experiment, we implement a simple asynchronous sequential circuit and test its operation . Its implemented through feedback.

2- EQUIPMENTS:

Type of IC	description
7404	inverter
7408	AND gate
7432	OR gate

3- PROCEDURE:

a- The function diagram is :



b- The transition table and Map for output are given following :

	x1 x2			
y	00	01	11	10
0	0	0	0	1
1	0	0	1	1

The transition table

		x1 x2		
	00	01	11	10
y				
0	0	0	0	0
1	0	0	1	0

Map for output

b- Derive the wiring diagram

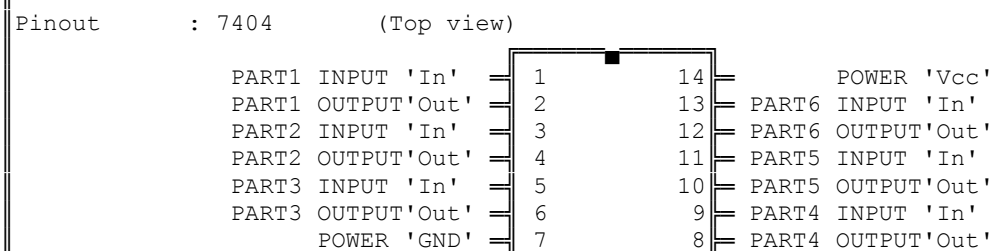
c- Implement the circuit and test its operation

4- CONCLUSION

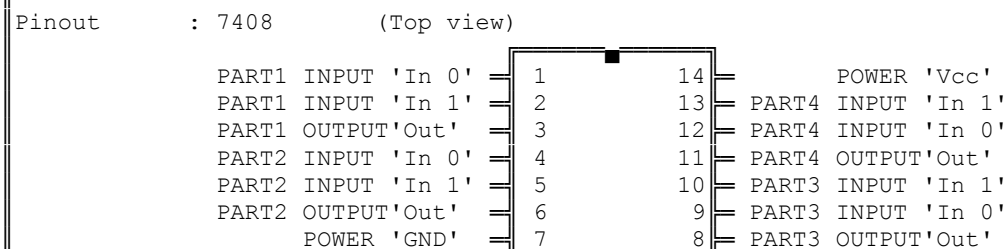
Write your conclusions about the experiment.

Pin-out for ICs

Function : INVERTER



Function : 2-input-AND Gate



Function : 2-input OR Gate

