

King Saud University

College of Computer and Information Sciences
Department of Computer Science

CSC 220: Computer Organization

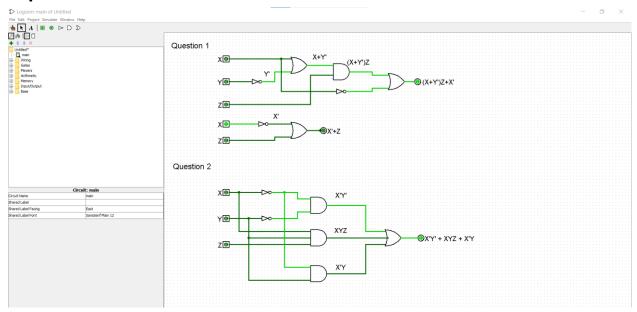
Labwork - 2

Name: Muaid Almutairi ID: 442101942

1. Introduction

Today I learn how to draw 2 different circuits and we saw the output the same in the truth table.

2. Experiments



3. Results

X	Υ	Z	C1=X+Y'	C2=C1*Z	F=C2+X'	F2=X'+Z
0	0	0	1	0	1	1
0	0	1	1	1	1	1
0	1	0	0	0	1	1
0	1	1	0	0	1	1
1	0	0	1	0	0	0
1	0	1	1	1	1	1
1	1	0	1	0	0	0
1	1	1	1	1	1	1

Χ	X'	Υ	Υ'	Z	C1=X'Y'	C2=XYZ	C3=X'Y	F=C1+C2+C3
0	1	0	1	0	1	1	0	1
0	1	0	1	1	1	0	0	1
0	1	1	0	0	0	0	1	1
0	1	1	0	1	0	0	1	1
1	0	0	1	0	0	0	0	0
1	0	0	1	1	0	0	0	0
1	0	1	0	0	0	0	0	0
1	0	1	0	1	0	0	0	0

4. Discussion

Both circuits are producing same result but the circuit has less number of gates are cheaper And faster and less use of power.