

ECCS1721-Homework#11

Problem 1

Using sequential (arbitrary) state assignment, realize the NRZ to Manchester code converter (described in lecture 27, slide 1) using D-Flip Flops.

Problem 2

Given the following state table:

Current state	Next state		output
	W=0	W=1	
A	B	C	1
B	D	F	1
C	F	E	0
D	B	G	1
E	F	C	0
F	E	D	0
G	F	G	0

1. Minimize the state table.
2. Using heuristic rules, assign the right values for the states in the minimized state table.
3. Implement the minimized state table using Toggle Flip Flops.