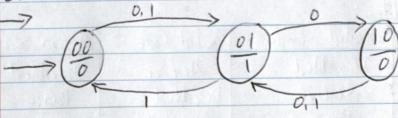
CS 3810 Assignment ob

Answer: (Let Drifting left be o Let Prifting right be)

pristing le	ft .	Drifting left	4413
Stort Steering to left	Steering	Dritting right	to right
Orithing right	Dritting Center	marinan y	WAS DAY AS

T	l state/	Input ->	Drifting right	Disting left	Center
T	Steern	g left	Drifting right	Center	left
	Steerih	g right	Center		right
1	Steerin	g Center	Center	Center	Center

Or we can do it another way,



				listrates Eld		Marie Jak	
	Current	State	Input	Next	State	Output	
	A	B	C	AH	BN	, Y	
	0	0	0	0	1	0	
	0	0	١	0	1	0	
	0	1	0	1	0	1	
	0	1	(0	0		
	1	0	0	0	(0	
972	1	0	1	0	1	0	
	1	1	0	X	*	×	

Yingjie Lian U1058784 Assignment 06

Question 2: So we can make a DFA for this scenario on home alarm circuit DFA= {Q, E, 2, 8, F} Q = Set of states = {Active, Disabled, Panic} I = input alphabet = {Invalidade, valid code, motion Sensor} Qu=initial states = Disabled 8=Qx2:-7Q F: Final States (set)= (Active) Then we should Consider all conditions? invalid code Invalid code, motion Spason -> (Disabled) motion Panic Invalid code, Motion Sensor Finite State tables: Motion Sensor Invalid Code Valid Code State Input Disabled Disabled Active Disabled Panic Disabled Active Active Panic Disabled Panic Panic