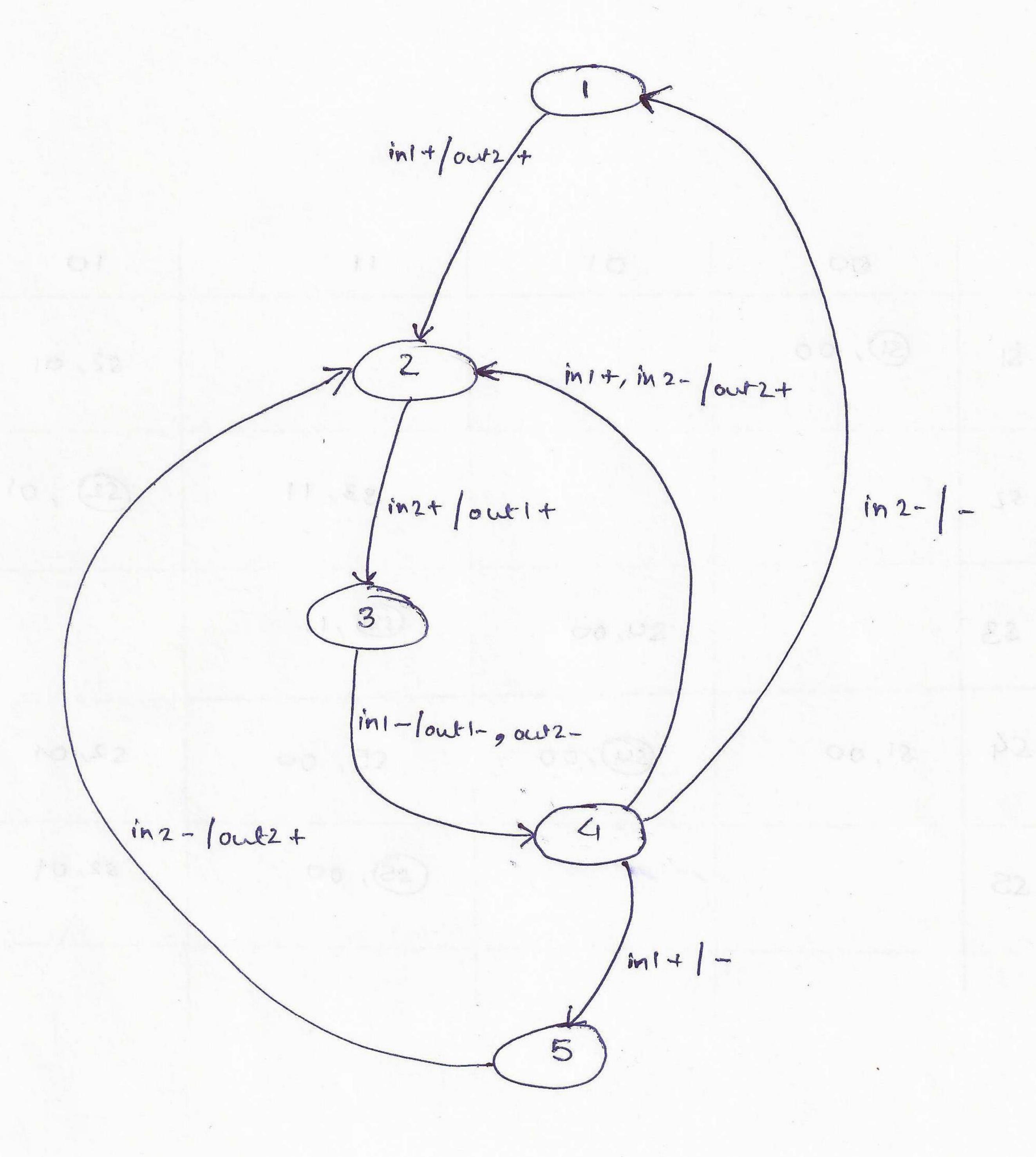
HW #4 (FCE - 6750)

UTKARSH GUPTA U0942827

4.1

4.1.1

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SI	(SD), 00			S2,01
52			33,11	(52),01
53		\$4,00	(3),11	
54	S1,00	(\$9),00	S5, 00	S2,01
55			(55), 00	\$2,01



4.2.1

a) The BM machine doesn't satisfy the minimal sel-property because the input burst from state 2 to state 0 (b) is a subselt of input burst from state 2 to state 1 (at, b).

(6) The BM machine doesn't satisfy the minimal set property because the Input burst from state 2 to state 4 (at) is a subset of input burst from state 2 to state 1 (a+, b-)

(c) The BM morehine doesn't satisfy the minimal set property because the input burst from state 2 to state 0 (b) is a subset of input burst from state 2 to state 1 (a*, b).

(d) The BM markine closs to salisty the (d) same argument as minimal set property because the input part (a) burst from state 2 to state (b) is a subset (not a ligal BM markine) of input burst from state 2 to state 1

(a) Since it does not satusfy the the test necessary condition ab minimal set it is not a Bm machine.

(b) Same argument as port (a) (Not a legal BM marking)

(c) Same argument as part cas (not a legal BM markine)

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0	6,01	2,00			1,10			
1					0,10		4, 11	
2.		(D),00						3,01
3							4,11	(3), 01
4		5,01					(20),11	
5	0,01	(5), o1						
		(5),01				NETTON CONTRACTOR CONT		

4.4

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(i) The XBM doesn't satisfy the minimal set property because the compulsory transition (b+) of the input burst from state 1 to state 3 is a subset of the input burst (a*, b+) from state 1 to state 4.

- (ii) If the conservative set up requirement, that the value of conditional signal (d) is stable before the the compulsory transitions (at, bt or at) accur, is holds true, then the XBM statistics the minimal set property. Although the compulsory transitions violate the property themselves, but the presence of a stable signal d, clearly differentiates the teno transitions.
- iii) The XBM do satisfy the minimal set property as the presence of a stable signal of, differentiates the time transitions from state D to state I and from state D to state I and from state D to state 2.

 But even though the XBM satisfies the minimal set property, it is not a legal XBM as a preceding transition on state O has a directed don't care(or) and a transition from state O has a as a compulsory transition.