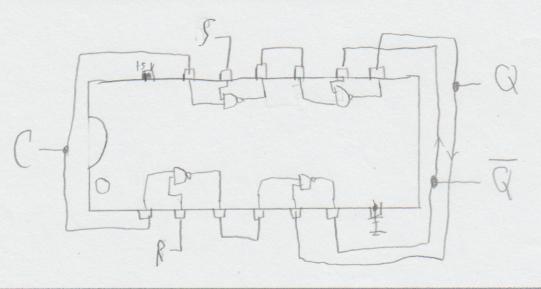
Pre-Lab Worksheet #5

NAME: Alexander Williams LAB Section: BO_

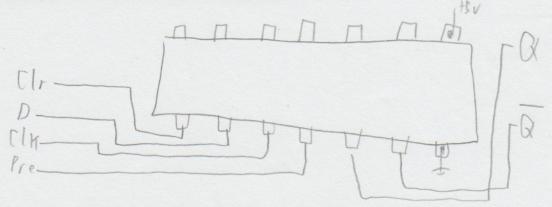
Pre-Lab	1.	part	al	Truth	table:
110 500	-,	Sec. e	~,		emmin.

С	S	R	Q	Q+
0	0	C	0	D
0	C	0	1	1
0	0	1	0	D
0	Ø	1	1	
0	1	0	0	0
Q		0	1	1
0	1	1	0	0
0	1		1	
	0	0	0	0
1	0	0		1
1	.0	1	0	0
1	0	1	1	0
	1	0	0	1
1	1	0		
1	1	-	0	X
1	1		1	X

Draw or print the circuit constructed using one 7400. Pre-Lab 1, part b)



Draw or print the wiring diagram Pre-Lab 2, part a)



		Preset	Clear	Clk	D	Q	Q+
				()	0	U	\ /
			/	1	U		
					1	0	
		H			1		X
			1	1	10	0	
			1		0		
		+	1			0	
			1	-	C.	0	1
				1	10	1	
					1	0	
					I.T	1	
				1	0	0	
		1			11	0	1
		1			+	0	
		/	1	1	1	0	n
					Λ	C	D
				0	1		0
				1	1	0	0
					U	and a	C
					1	0	0
			0	1	1	1	0
			A	A	10	C	0
				$H \rightarrow$	1	0	0
				11	1-1-	C	
				1	0	0	D
					10	1	0
					1	0	
		上	工	上	1	1	
Pre-La	b2, part c) Are the preset and clear inputs active high	or active	low? E	xplain	vour ar	swer	
	both one active law, they only						
	east die allung rom' tout auth	1,001/	lfegr	When	low		
Pre-la	b 3, part a) Answers can be obtained from the data s	heet for t	he 741	92			
	What values should be applied to the inputs of the co				EAR fo	nction	2
	4: 0					^	•
	What is the output that is expected from the	counter	when it	is clear	red?	U	
>	What values should be applied to the inputs of the co	ounter to	obtain	the LO	AD fun	ction?	
	What is the output that is expected from the	o counto	ruhan	it is los	doda		
	what is the output that is expected from the	e counte	when	it is loa	ueur		
	Value in Par inputs						
>	What values should be applied to the inputs of the co	ounter to	cause i	t to cou	unt dov	vn?	
TC 7 down							
What is the output that is expected from the counter when it is counting down?							
	one less then what it was			,	,		
>	Is this circuit a leading edge or trailing edge triggered	counter	? 1990	ling to	198		
	3 - 3 - 1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -						

Pre-Lab 2, part b)

Truth Table: