

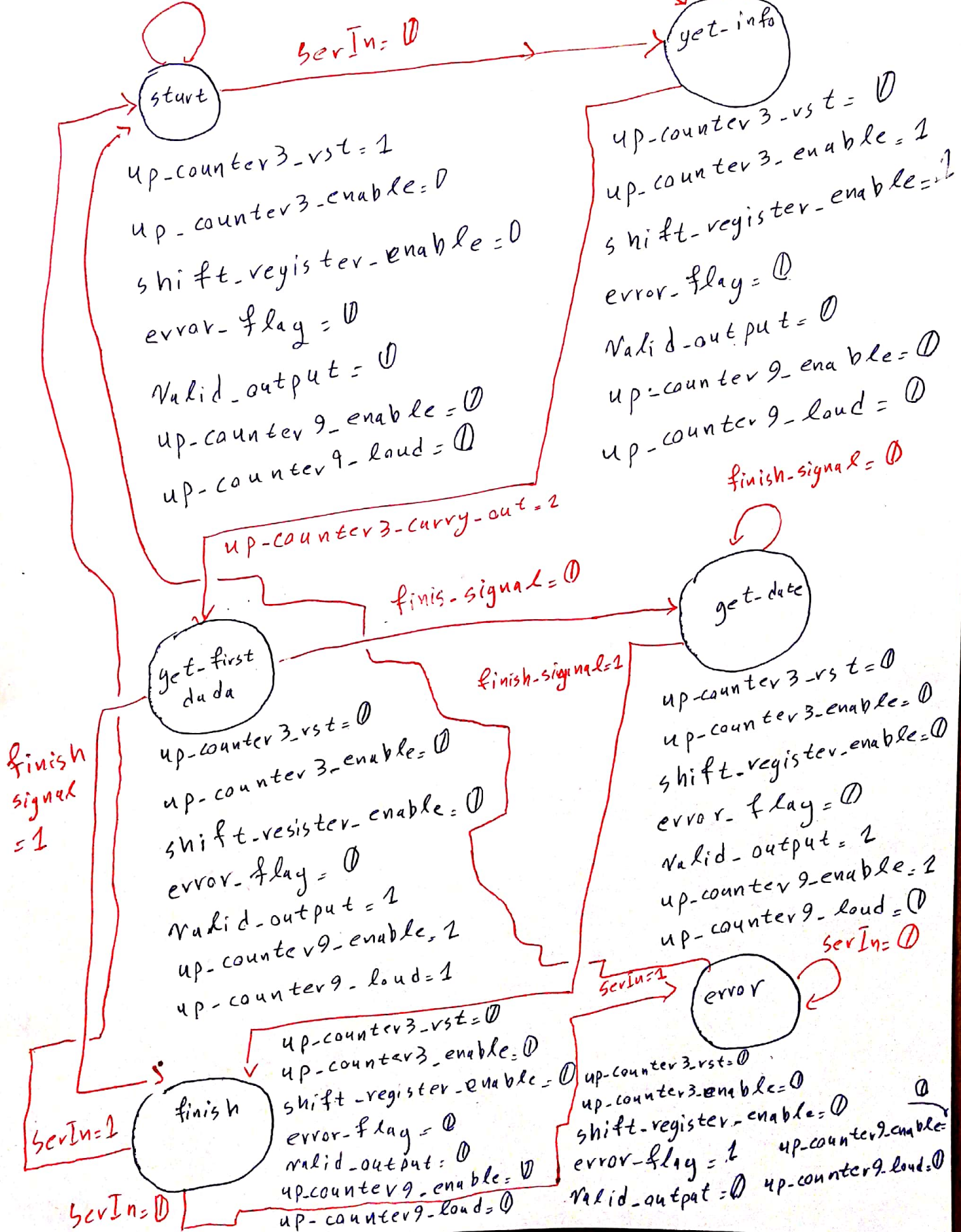
Moein Karami

810 198540

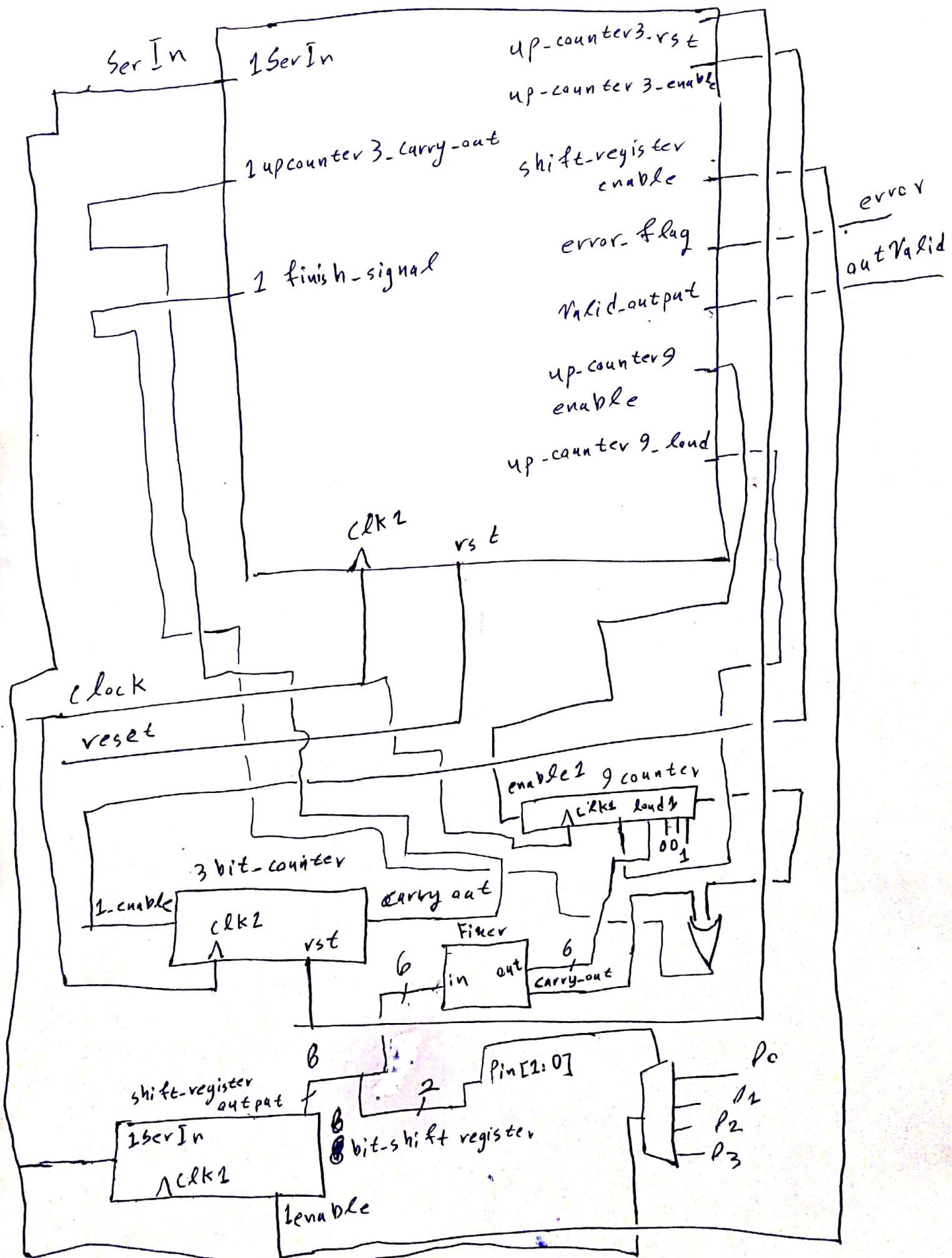
serIn = 1

up-counter 3 - carry
- out = 0

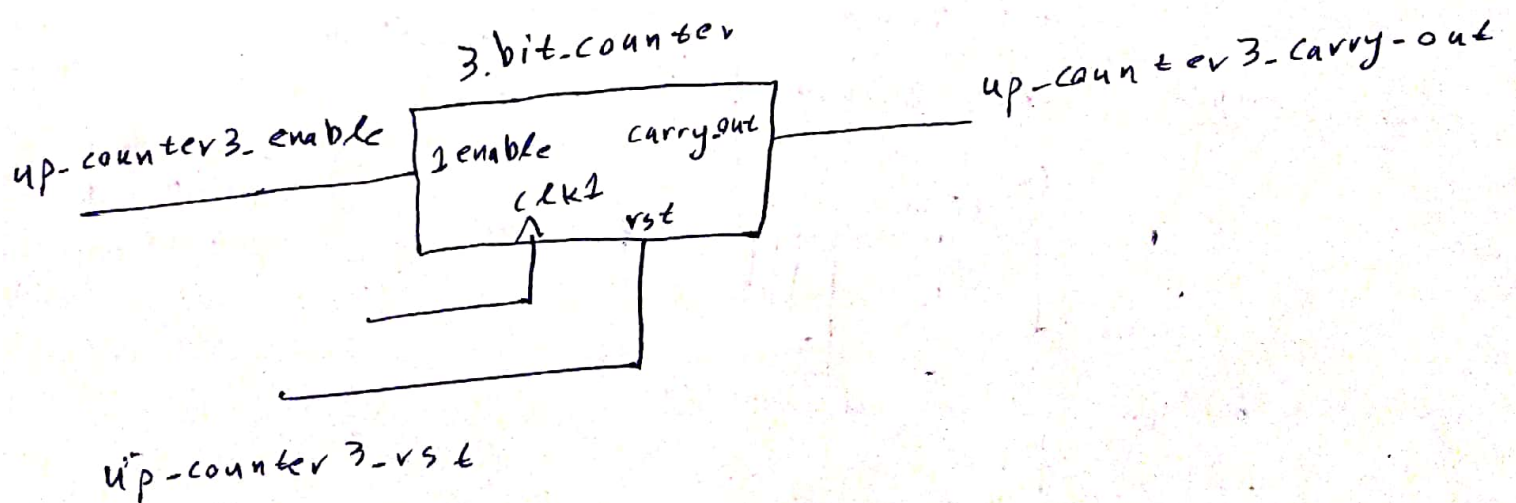
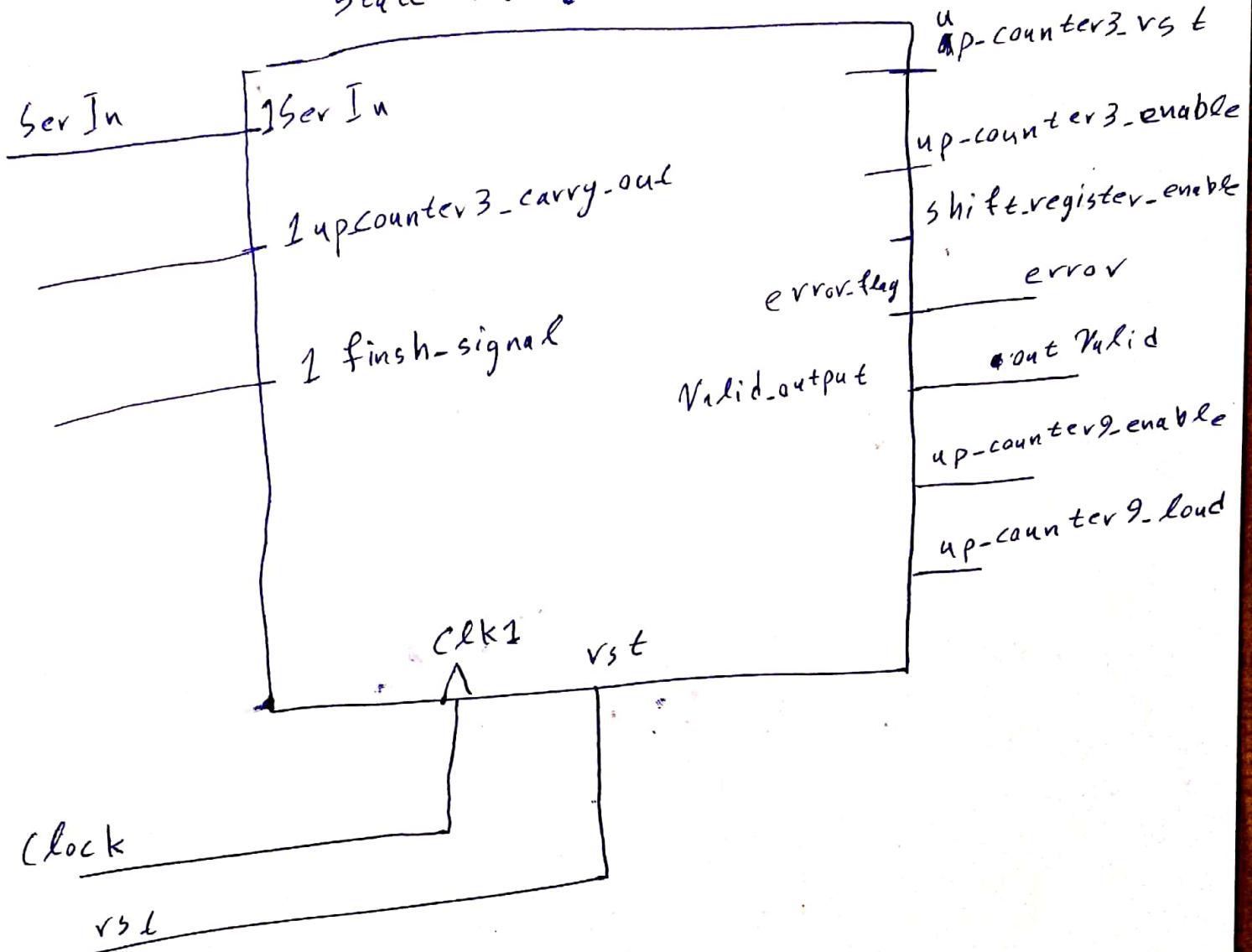
مبین کریمی
11/1/91

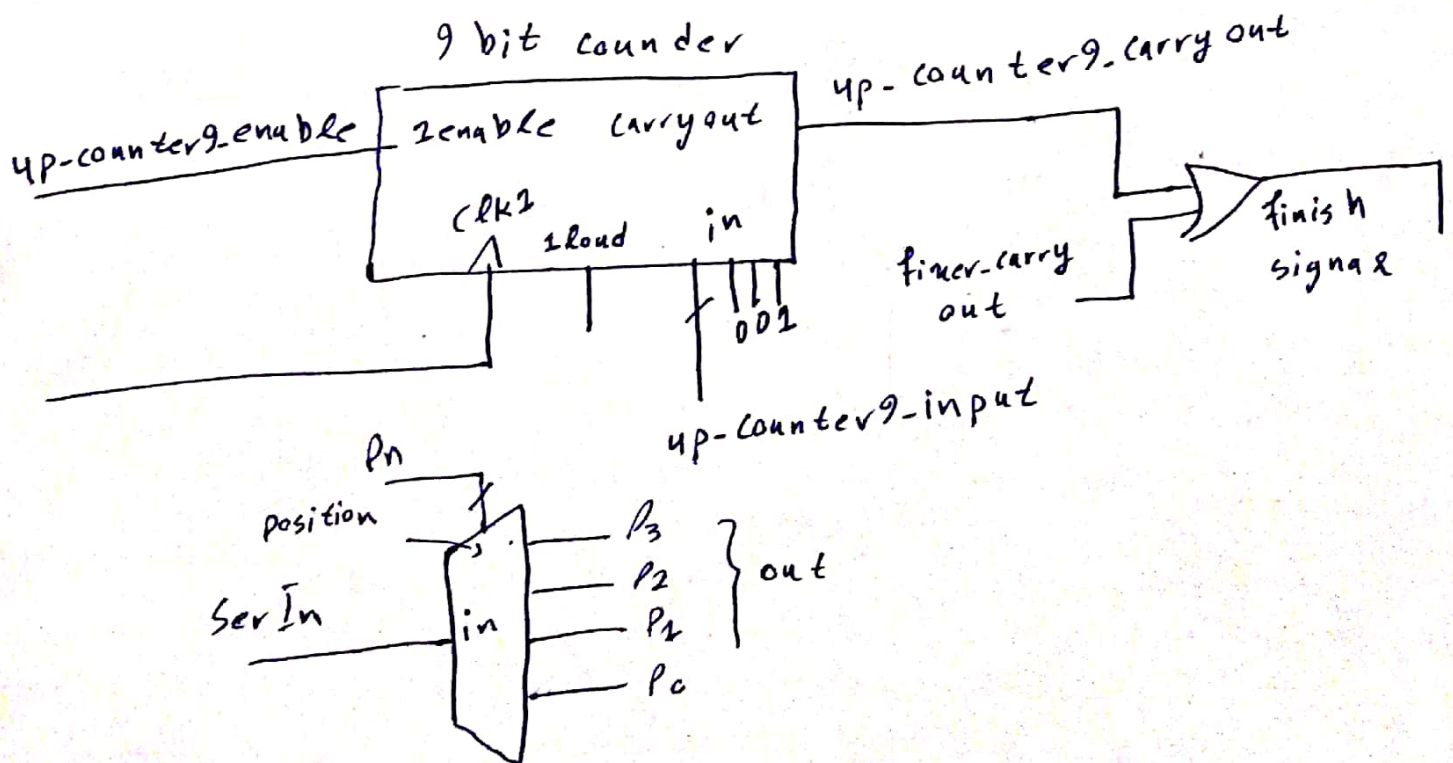
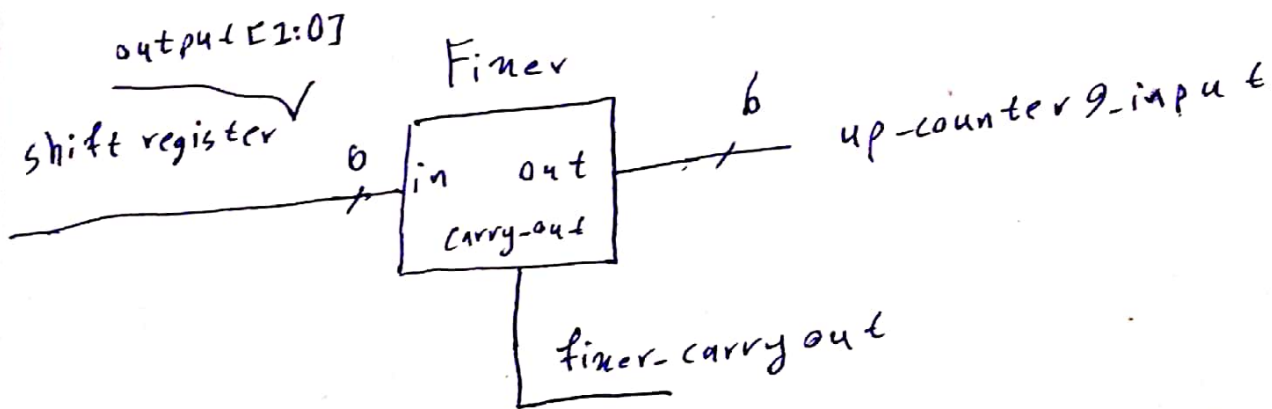
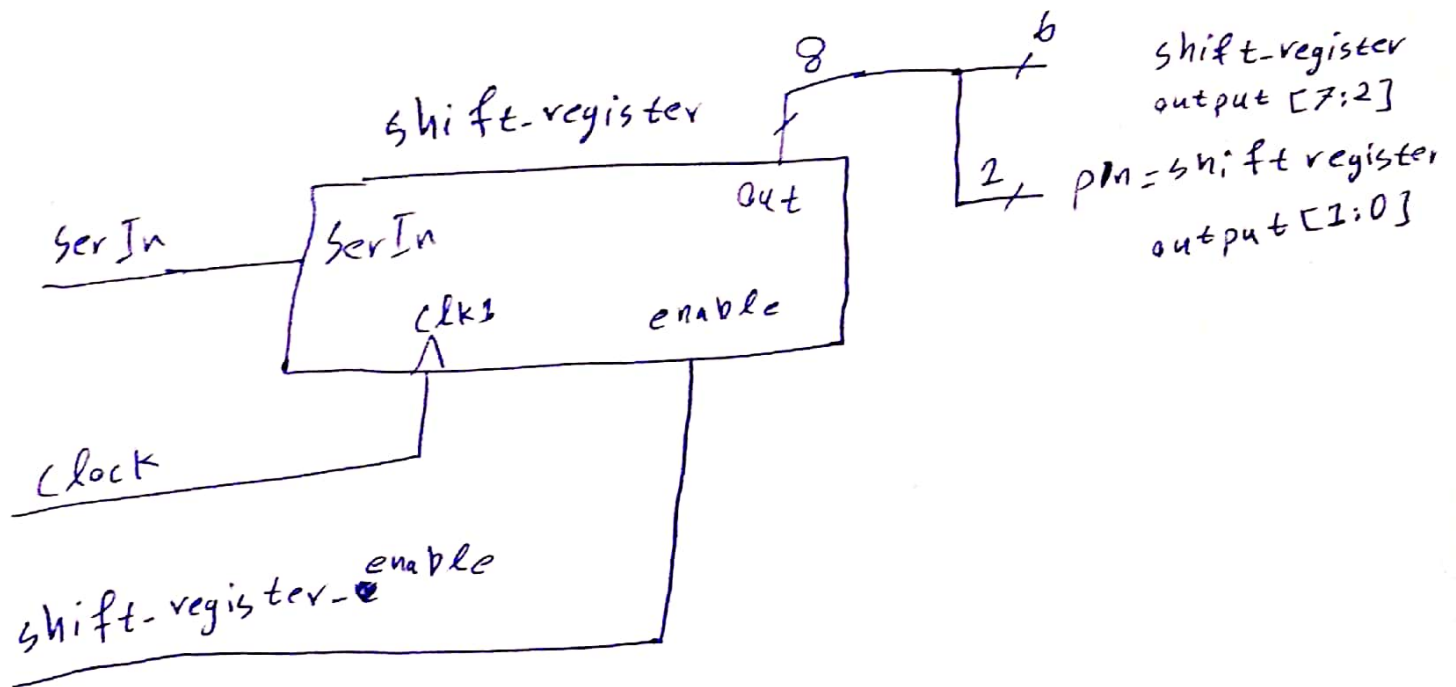


State machine



State Machine





state	SerIn	uc3co	finish_signal	uc3r	uc3e	sre	error_flag	valid_output	uc9e	uc9l	next state
start	1	x	x	1	0	0	0	0	0	0	start
start	0	x	x	1	0	0	0	0	0	0	get info
get info	x	1	x	0	1	1	0	0	0	0	get first data
get info	x	0	x	0	1	1	0	0	0	0	get info
get first data	x	x	1	0	0	0	0	1	1	1	finish
get first data	x	x	0	0	0	0	0	1	1	1	get data
get data	x	x	1	0	0	0	0	1	1	0	finish
get data	x	x	0	0	0	0	0	1	1	0	get data
finish	1	x	x	0	0	0	0	0	0	0	start
finish	0	x	x	0	0	0	0	0	0	0	error
error	1	x	x	0	0	0	1	0	0	0	start
error	0	x	x	0	0	0	1	0	0	0	error

start = 000

get info = 001

get first data = 101

get data = 010

finish = 011

error = 100