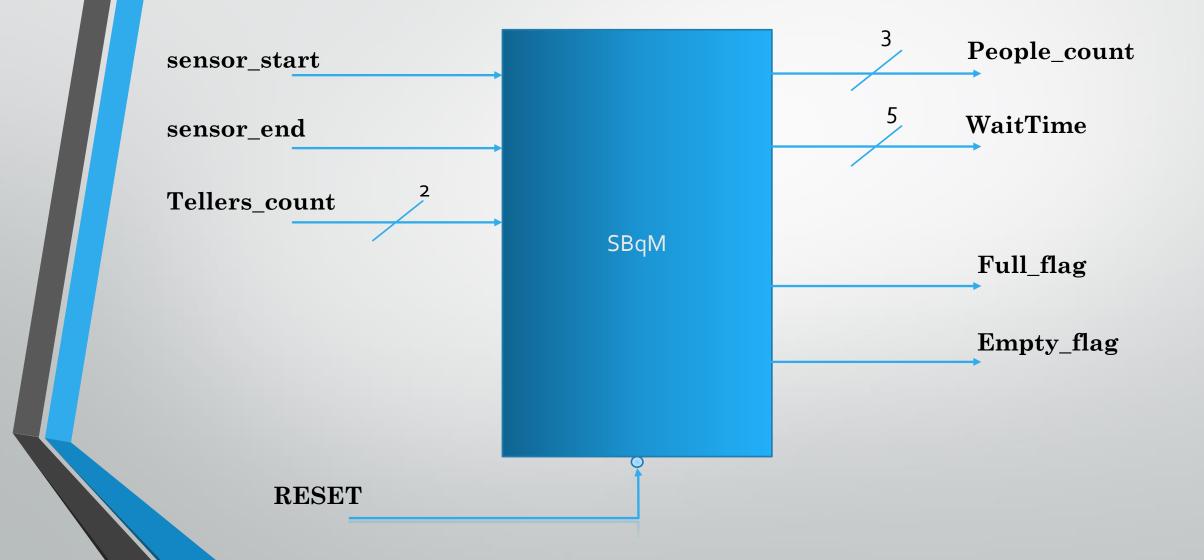
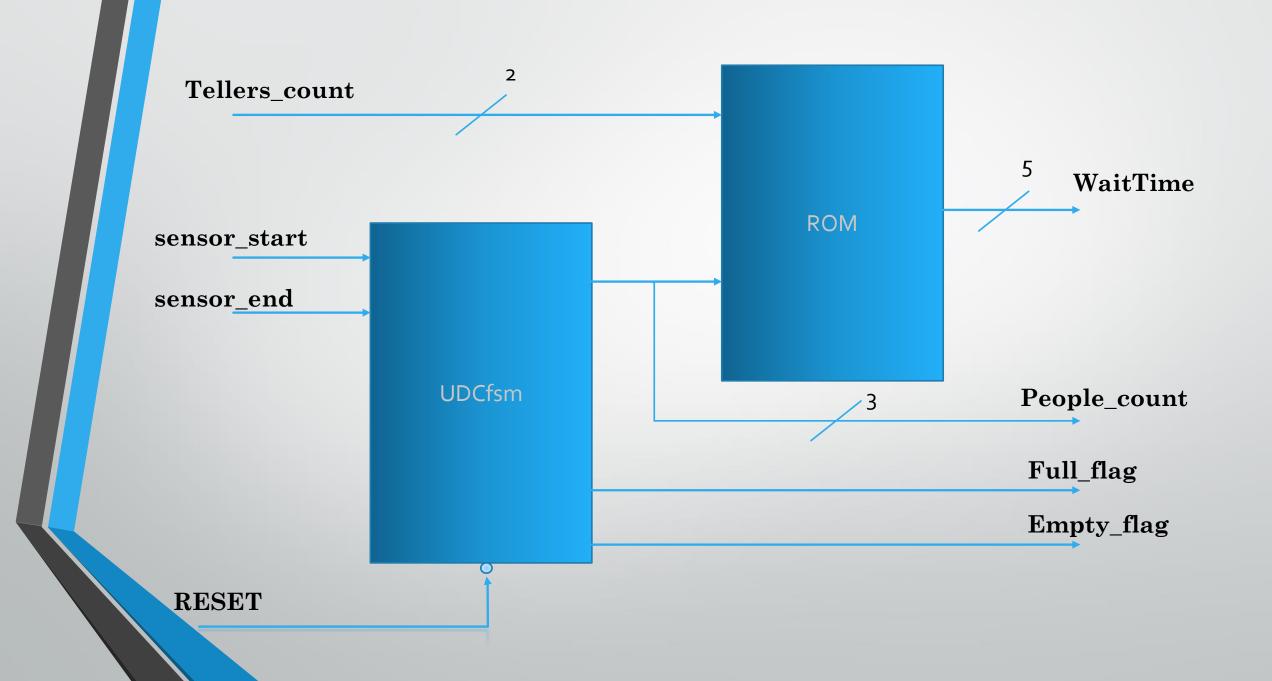
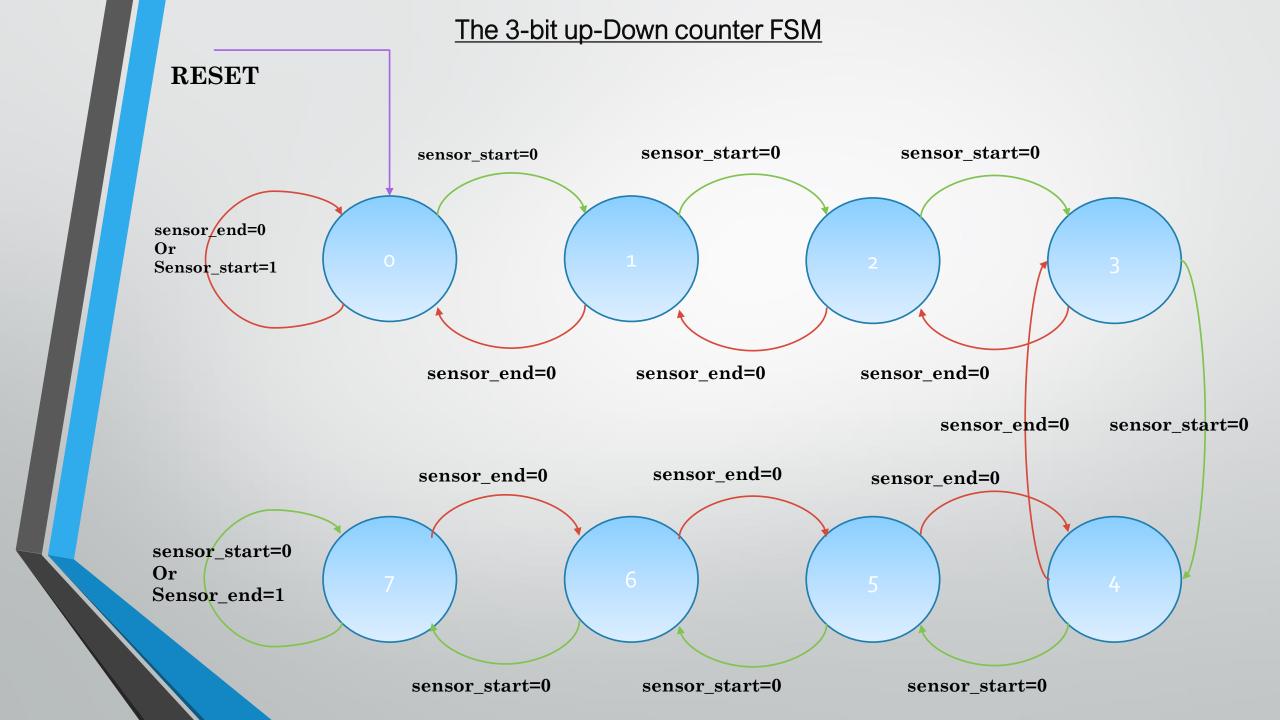
SBqM Report

	Inputs					outputs				
	Tellers _count	RESET	senso _start			Full _flag	Empty_ flag	People_ count	WaitTime	
	01	0	0	0		0	0	0	[0,21]	
	10	1	1	1		1	1	1	[0,12]	
	11							2	[0,9]	
Pcount		Wait tir	ne @	Wait time @ TC=10		Wait time @ TC=11		3		
		TC=01						4		
0		()	0		0		5		
1		3	3	3		3		6		
2		6	3	4		4		7		
3		(9	6		5				
4		1	2	7		6				
5		1	5	5		7				
6		1	8	10		8				
	7	2	1	12			9			

- > Tellers_count: represents the number of tellers available.
- > sensor_start: represents the entry gate photocell sensor.
- > sensor_end: represents the exit gate photocell sensor.
- > RESET: sets the program to its default.
- > Full_flag: indicates if the queue is full.
- > Empty_flag: indicates if the queue is empty.
- > People_count: represents the number of clients within the queue.
- ➤ WaitTime: represents the time each clients should wait before gets served, and it corresponds to the tellers' number.







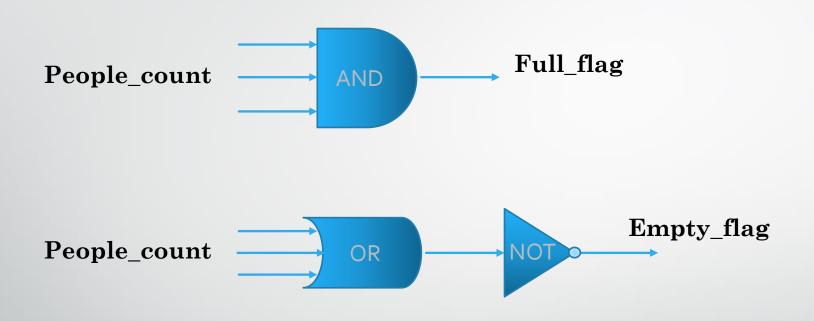
Note that:

For Up counting

For Down counting

- ✓ For up-count: in any case if the sensor_start=1 it stays at the same case.
- ✓ For down-count: in any case if the sensor_end=1 it stays at the same case.

For flags synthesis:



Just thought it's cool ☺

