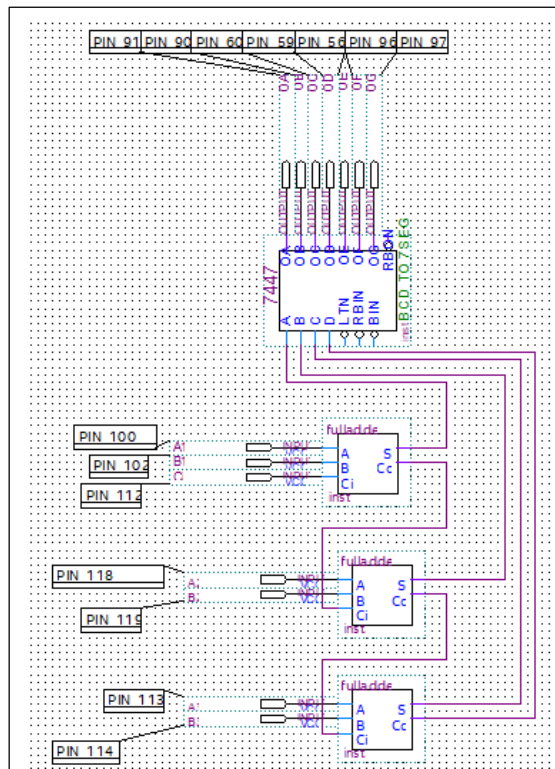
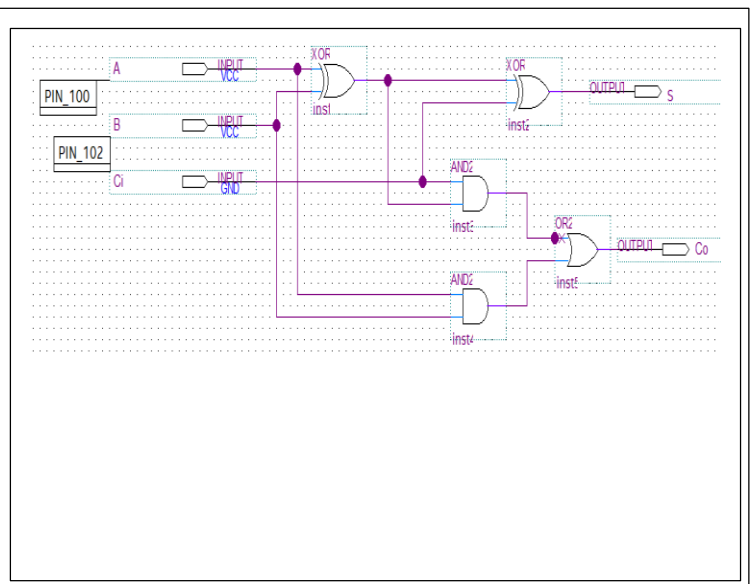
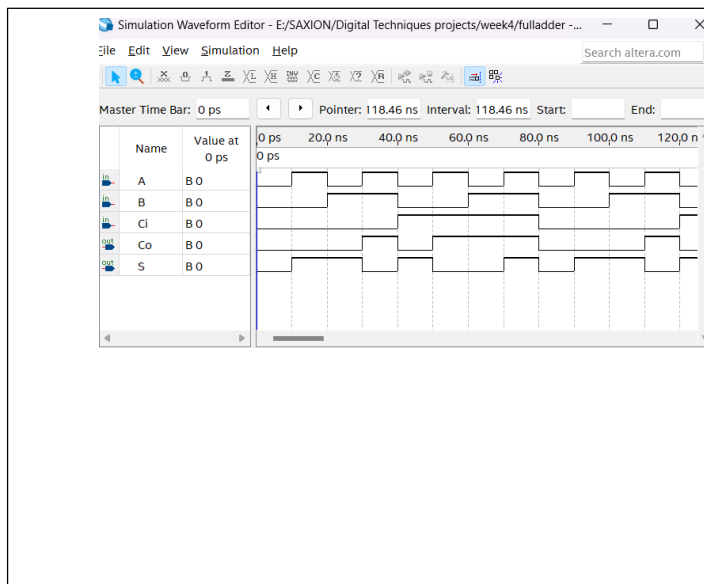


A	B	Ci	Co	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

S	AB/Ci	0	1
	00	0	1
	01	1	0
	11	0	1
	10	1	0
$\bar{A}\bar{B}Ci + \bar{A}B\bar{C}i + AB\bar{C}i + ABCi$ $= B(\bar{A}\bar{C}i + ACi) + \bar{B}(\bar{A}Ci + ACi)$ $= B(A \oplus Ci) + \bar{B}(A \oplus Ci)$ $= B \oplus (A \oplus Ci)$			

Co	AB/Ci	0	1
	00	0	0
	01	0	1
	11	1	1
	10	0	1
BCi + AB + ACi			



Simulation: This is the result of full adder which is on the truth table above.