- 1-What is Approximate Computation?
- 2-Which one do you prefer?
  - 1- A scientific paper 2-A US Patent?
- 3- What is an approximate HA?
- 4- These truth tables belong to what?

<u>A</u>	В	C	S		Α	В	С	S
0	0	0 1 1	1	'	0	0	0 1 1 0	1
0	1	1	0		0	1	1	0
1	0	1	0		1	0	1	0
1	1	1	1		1	1	0	1
	Α					В		

5- These truth tables belong to what?

Α	В	С	S	Α	В	С	S
0 0 1 1	0 1 0 1	1 1 1 0	0 1 1 0	0 0 1 1	0 1 0 1	0 1 1 0	0 1 1 0
	Α				В		

6-- These truth tables belong to what?

В	С	S
0 1 0 1	1 0 0 1	1 0 0 1
)	0 0 1 B	0 0 1 0 0 0 1 1 1 B

7-- These truth tables belong to what?

Α	В	С	S		Α	В	С	S
0	0	0	0		0	0	1	0
0	1	0	1		0	1	0	1
1	0	0	1		1	0	0	1
1	1	0 0 0 1	0		1	1	1 0 0 1	0
Α					В			

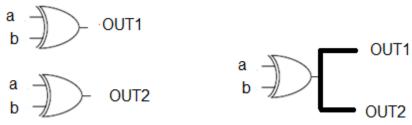
8- Design an Approximate FA using Majority and Minority gates?

a	b	С	С	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

9- Design an Approximate FA<sup>--</sup> using XOR and XNOR gates.

a	b	С	С	S
0	0	0	1	0
0	0	1	1	1
0	1	0	1	1
0	1	1	0	0
1	0	0	1	1
1	0	1	0	0
1	1	0	0	0
1	1	1	0	1

- 10- Design an Approximate FA Using Minority gates.
- 11- Design an Approximate FA Using just one Majority gate.
- 12- Design an Approximate FA Using XOR gates.
- 13- Design an Approximate FA Using just one XOR gate
- 14- Which one do you prefer?



15- Give some example of Approximate computation applications.