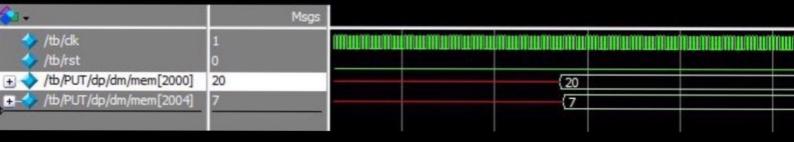


Signal Controller	ALUOP	MemtoReg	MemRead	MemWrite	ALU	Reg	Reg	write	Pc1	PCZ	Brand
R-type	10	0	0	0	0	1	10	1	X	0	0
addi	01	0	0	0	1	1	00	1	X	0	0
slti	11	0	0	. 0	1	1	00	1	×	0	0
LW	01	1	1	0.	1	1_	00	1	X	0	0
Sw	01.	X	0	1	1	X	X	X	X	0	0
beq	00	Χ.	X	· X	0	X	X	X	X	0	1
j_	X	X	×	X	X	X	X	X .	0	1	0
jr	X	X	X	×	X	X	X	_ X	1	1	0
jal	X	×	X	×	X	1	01	0	0	1	0

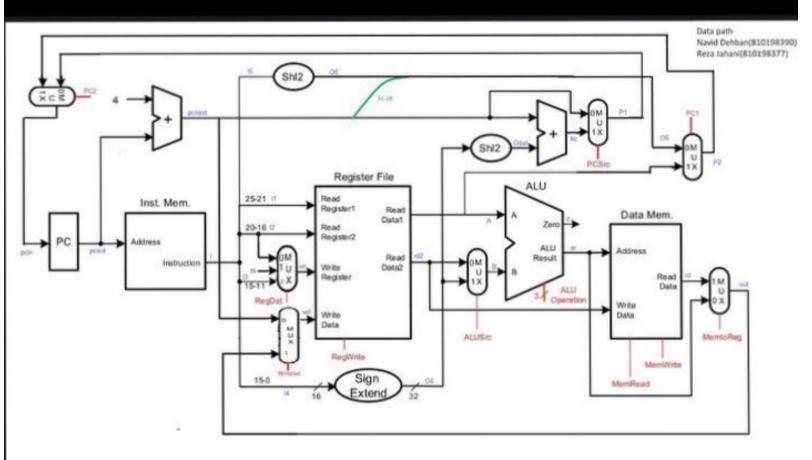
## Scanned with CamScanner

## **Output Waveform**



Max{arr}=20 Index=7

## Datapath Wiring



Scanned with CamScanner