Microprocessor and Computer Architecture UE20CS252

4th Semester, Academic Year 2021-22

Date: 24/1/2022

Name: \	VISHWAS M	SRN: PES2UG20CS390	Section: F
Week#_	2	Program Number: e of the Program	1
stored i	n ALP using ARM	l instruction set to check ven or odd. If even, sto	
I. II. III.	The output sho	Shot (1) ould be verified for both	even and
I.CODE:			
.text			
MOV r1,	, #8		

ANDS r2,r1,#1

BEQ L1

MOV r0,#0xFF

B L2

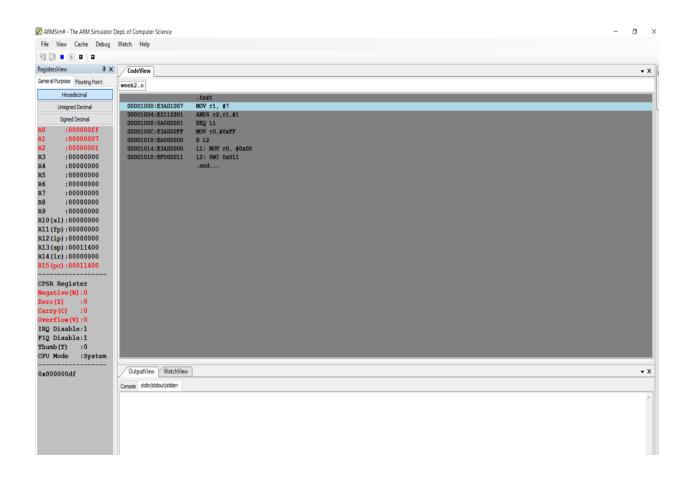
L1: MOV r0, #0x00

L2: SWI 0x011

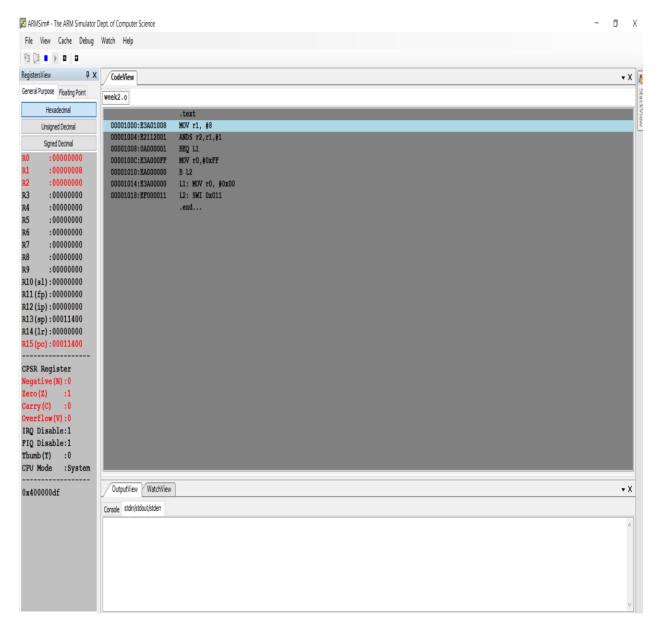
.end

II.SCREENSHOT:

a)for odd number:



b)for even number:



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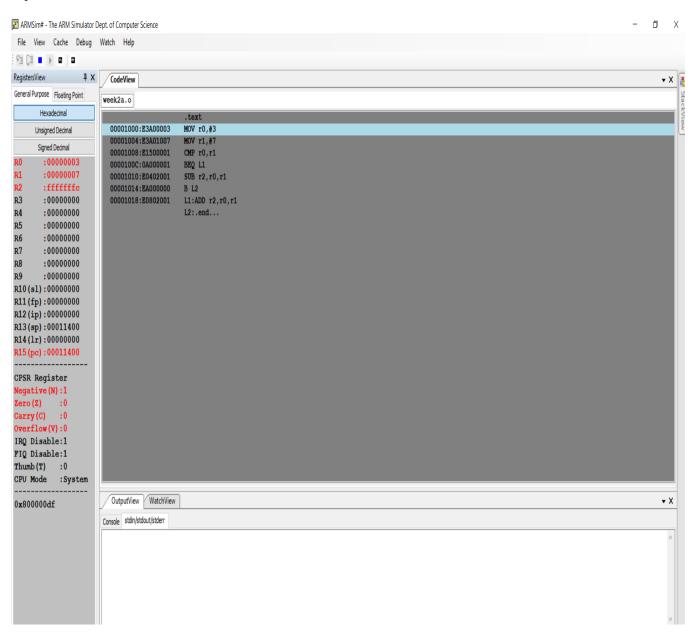
	Date:	
Name: VISHWAS M	SRN:	Section
	PES2UG20CS390	F
	<u>.</u>	
Week#1	Program Number:	2
Title	e of the Program	
Write an ALP to compa	re the value of R0 and R1	., add if RO
= R	1, else subtract	
I.CODE:		
.text		
MOV r0,#7		
MOV r1,#7		
CMP r0,r1		
BEQ L1		
SUB r2,r0,r1		
B L2		

L1:ADD r2,r0,r1

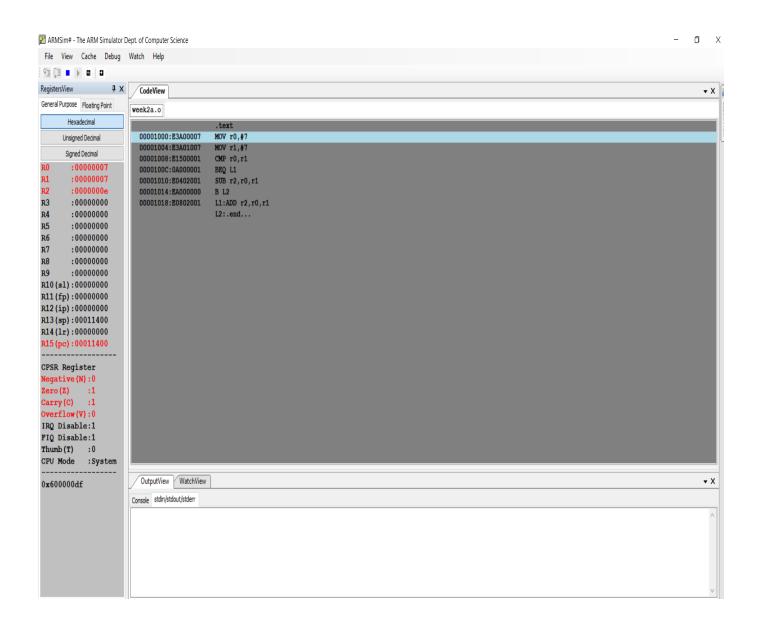
L2:.end

II.SCREENSHOT:

a)for different numbers:



b)for same numbers:



Disclaimer:

- The programs and output submitted is duly written, verified and executed by me.
- I have not copied from any of my peers nor from the external resource such as internet.
- If found plagiarized, I will abide with the disciplinary action of the University.

Name: Vishwas M

SRN: PES2UG20CS390

Section: F

Date: 24-01-2022