4th Semester, Academic Year 2020-21

Date:6/03/2021

Name: R Sharmila	SRN:	Section
	PES2UG19CS309	E

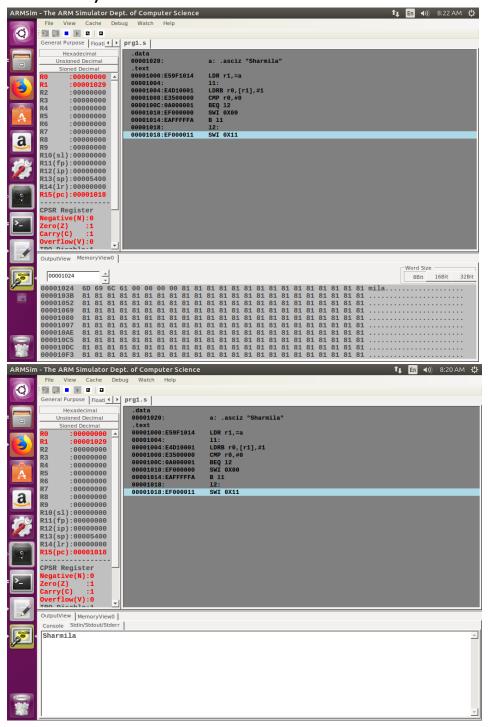
Week#____5___ Program Number: ____1__

Write an ALP to display your name

```
C:\Users\sharm\Desktop\4th sem\Microprocessor\Lab work\
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Week5_Program1_PES2UG19CS309.s 

■ Week5_Program2_F
        .data
   2
            a: .asciz "Sharmila"
        .text
            LDR r1,=a
        11:
            LDRB r0, [r1], #1
            CMP r0,#0
            BEQ 12
   9
            SWI 0X00
            в 11
  10
  11
       12:
  12
            SWI 0X11
  13
  14
```

II. Output Screen Shot (Output Window and Memory Window)



III. Output Table for the program(1)

S	h	а	r	m	i	1	а
73	68	61	72	6D	69	6c	61

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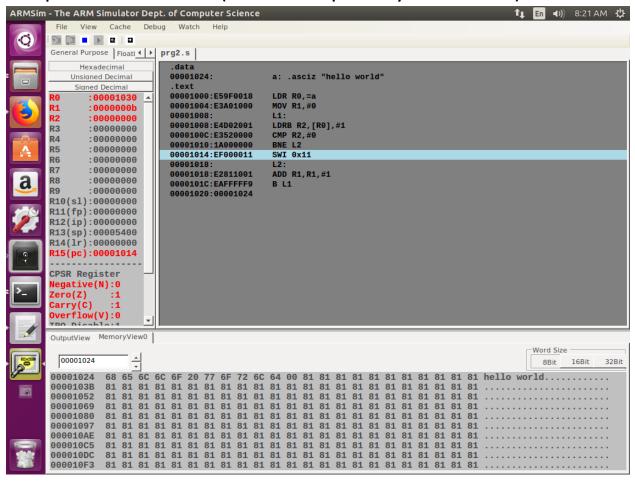
Name: R Sharmila	SRN:	Section
	PES2UG19CS309	E

Week#____5___ Program Number: ____2__

Write an ALP to find the length of a given string

```
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 🔚 Week5_Program1_PES2UG19CS309.s 🗵 📙 Week5_Program2_F
         .data
   2
             a: .asciz "hello world"
         .text
             LDR R0,=a
             MOV R1,#0
             L1:
             LDRB R2, [R0], #1
   8
             CMP R2,#0
   9
             BNE L2
  10
             SWI 0x11
  11
             L2:
  12
             ADD R1,R1,#1
  13
             в ь1
  14
```

II. Output Screen Shot (One Example of your choice)



III. Output Table for the program(1)

h	е			0		W	0	r		d
68	65	6C	6C	6F	20	77	6F	72	6C	64

After execution:

R1=0000000B (11)

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Date:6/03/2021

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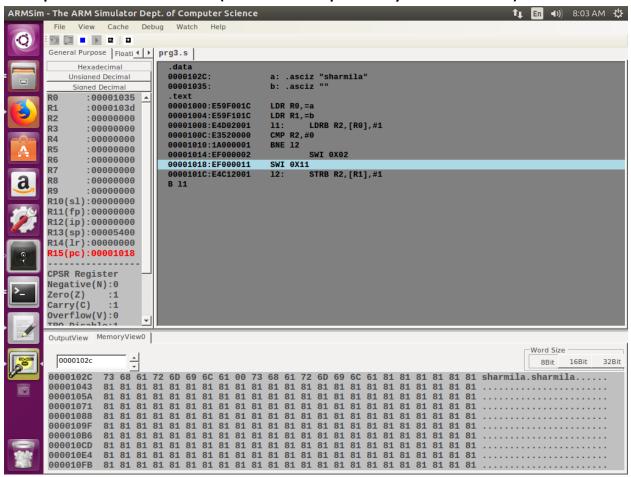
Week#	5	Program Number:	3

Write an ALP to copy string from one location to another

```
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Week5_Program3_PES2UG19CS309.s 

■ Week5_Program4_PES.
        .data
   2
            a: .asciz "sharmila"
             b: .asciz ""
        .text
            LDR R0,=a
            LDR R1,=b
   7
        11: LDRB R2, [R0], #1
   8
            CMP R2,#0
   9
             BNE 12
            SWI 0X02
  10
            SWI 0X11
  11
  12
        12: STRB R2, [R1], #1
  13
            в 11
  14
```

II. Output Screen Shot (One Example of your choice)



III. Output Table for the program(1)Before Execution

.data

a: .asciz "sharmila"

b: .asciz ""

After Execution

b: "sharmila"

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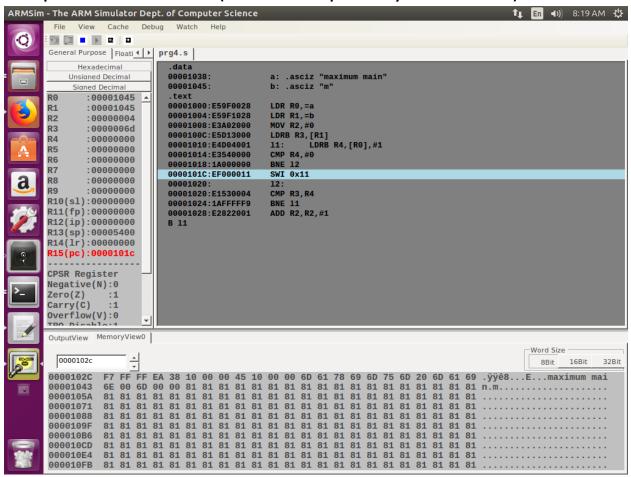
Name: R Sharmila	SRN:	Section
	PES2UG19CS309	Е

Week#	5	Program Number:	4

Write an ALP to find whether a given character is present in a string. If present, find how many times the given character is present in a string.

```
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Week5_Program4_PES2UG19CS309.s 
           a: .asciz "maximum main"
           b: .asciz "m"
  3
           LDR R0,=a
  6
           LDR R1,=b
          MOV R2,#0
  8
          LDRB R3, [R1]
  9 11: LDRB R4, [R0], #1
 10
          CMP R4,#0
          BNE 12
 11
           SWI 0x11
      12:
 13
 14
           CMP R3,R4
          BNE 11
 15
 16
          ADD R2,R2,#1
 17
           в 11
 18
```

II. Output Screen Shot (One Example of your choice)



III. Output Table for the program(1)Before Execution

.data

Str: .asciz "maximum main"

Char: .asciz "m"

After Execution

R2=00000004

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.

Signature: R Sharmila

Name: R Sharmila

SRN: PES2UG19CS309

Section: E

Date: 6/03/2021