Microprocessor and Computer Architecture Laboratory UE19CS256

4th Semester, Academic Year 2020-21

Date:

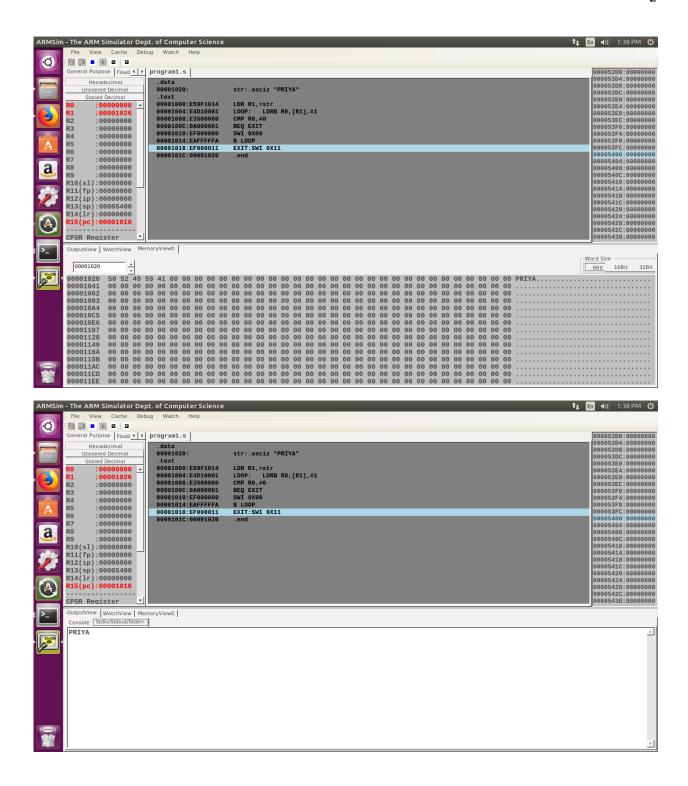
Name: Priya Mohata	SRN:PES2UG19CS301	Section:E

Week#____5___ Program Number: ____1__

Write an ALP to display your name

I.ARM Assembly Code (1).

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



III. Output Table for the program

Stdout : PRIYA

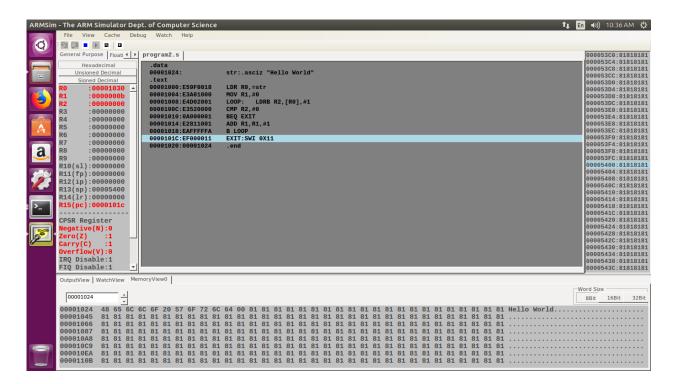
Memory: 50 52 49 59 41

Week#____5___ Program Number: ____2_

Write an ALP to find the length of a given string

I.ARM Assembly Code (1).

II.Output Screen Shot



III.Output Table for the program

Before Execution

.data

str: .asciz "Hello World"

After Execution

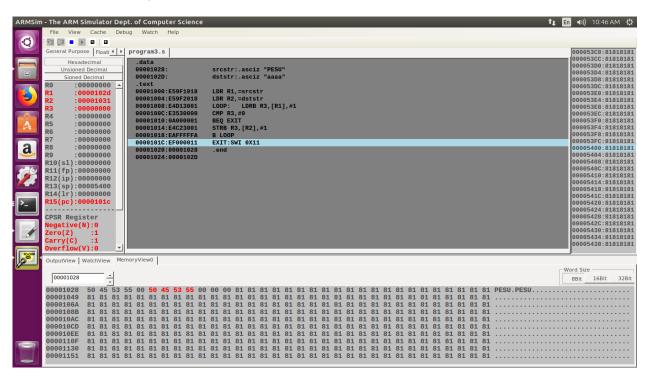
R1=000000b

Week#____5___ Program Number: ____3__

Write an ALP to copy string from one location to another

I. ARM Assembly Code (1).

II. Output Screen Shot



III. Output Table for the program

Before Execution

.data

srcstr: .asciz "PESU"

dststr: .asciz "aaaa"

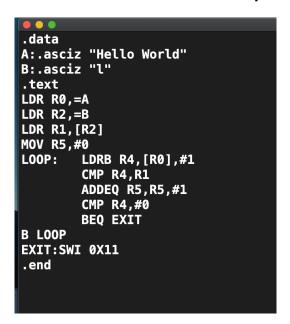
After Execution

dststr: "PESU"

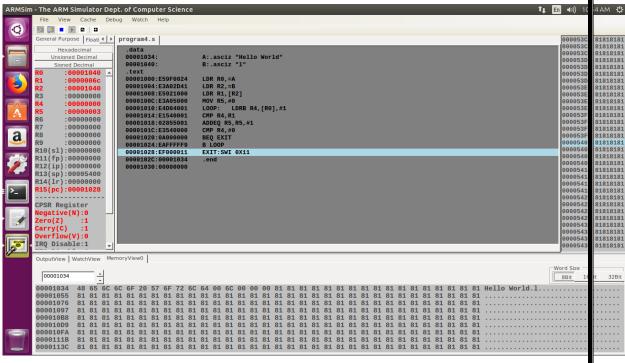
Week#____5___ Program Number: ____4_

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.

I. ARM Assembly Code (1).



II. Output Screen Shot



III. Output Table for the program

Before Execution

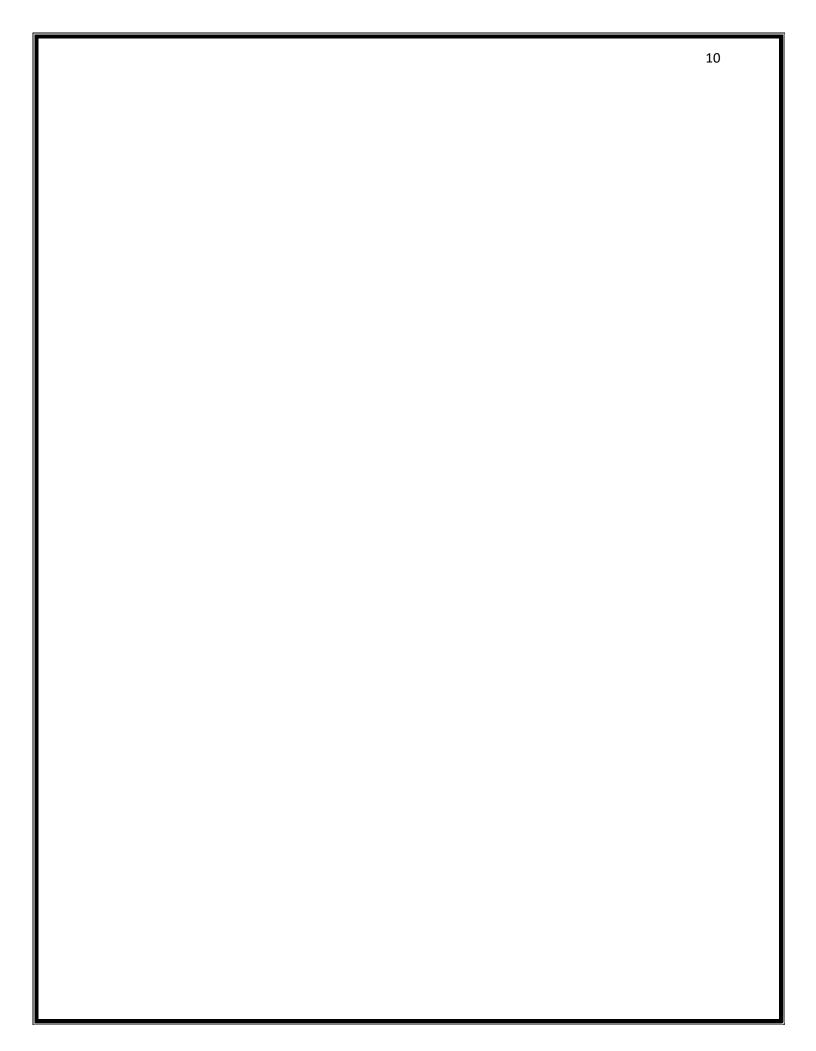
.data

Str: .asciz "hello world"

Char: .asciz "I"

After Execution

R5=00000003



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: PRIYA MOHATA

Name: PRIYA MOHATA

SRN: PES2UG19CS301

Section: E

Date: 04/03/2021