Microprocessor and Computer Architecture Laboratory

UE19CS256

4th Semester, Academic Year 2020-21

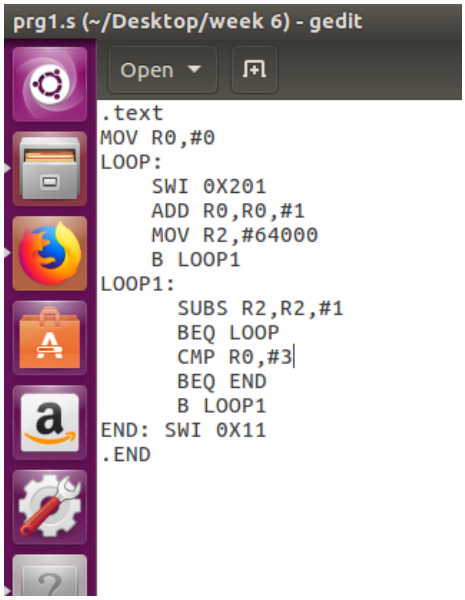
Date:6/03/2021

Name: R Sharmila	SRN: PES2UG19CS309	Section E

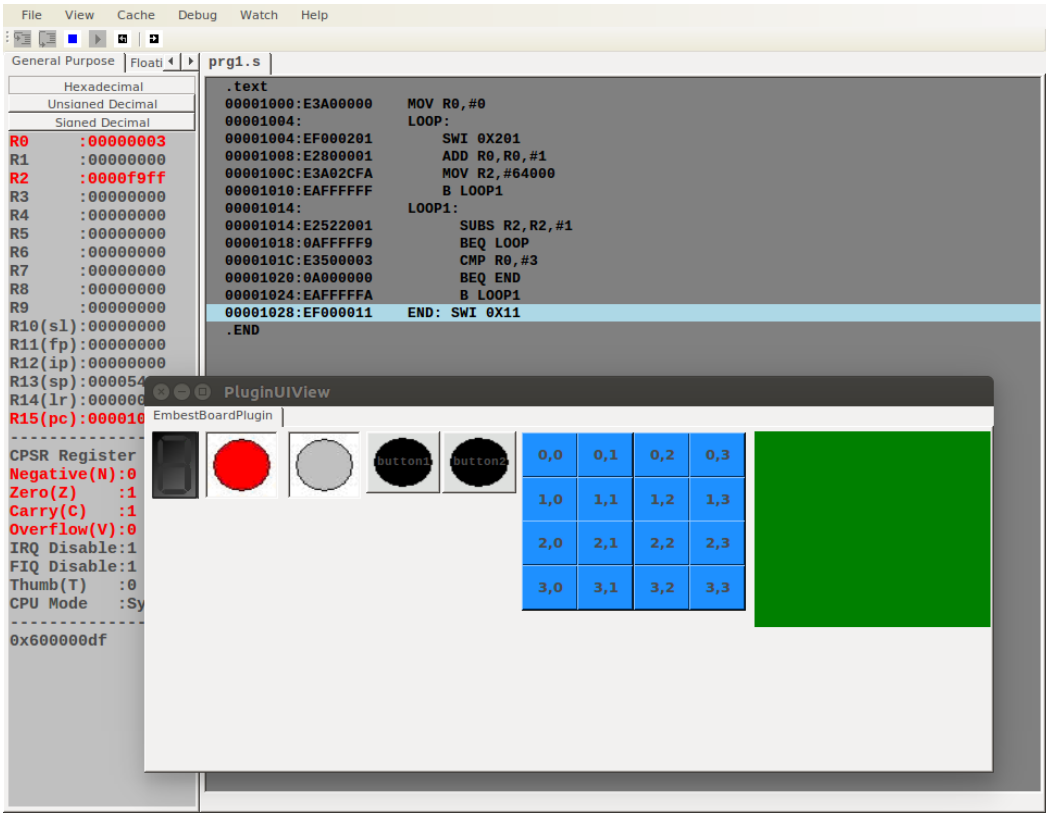
Week#____6_____ Program Number: ____1__

1. **Write an ALP to blink LEDs. First, the right LED is switched on and the left LED is switched off. After 1 second, the right LED is switched off and the left LED is switched on and the program continue to blink both the LEDs.**

I. ARM Assembly Code (1).



II. Output Screen Shot



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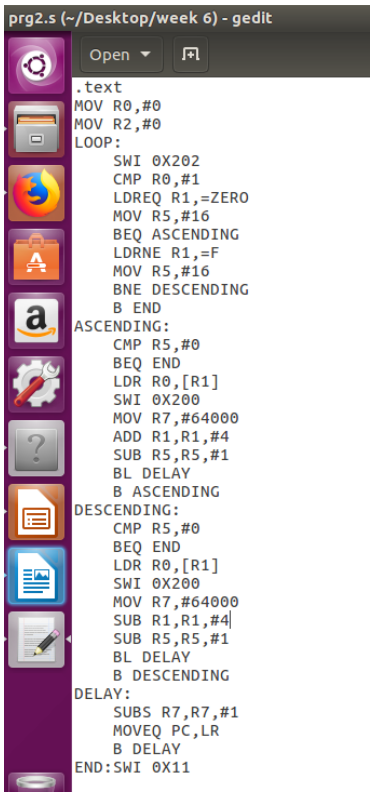
Week#____6_____ Program Number: ____2__

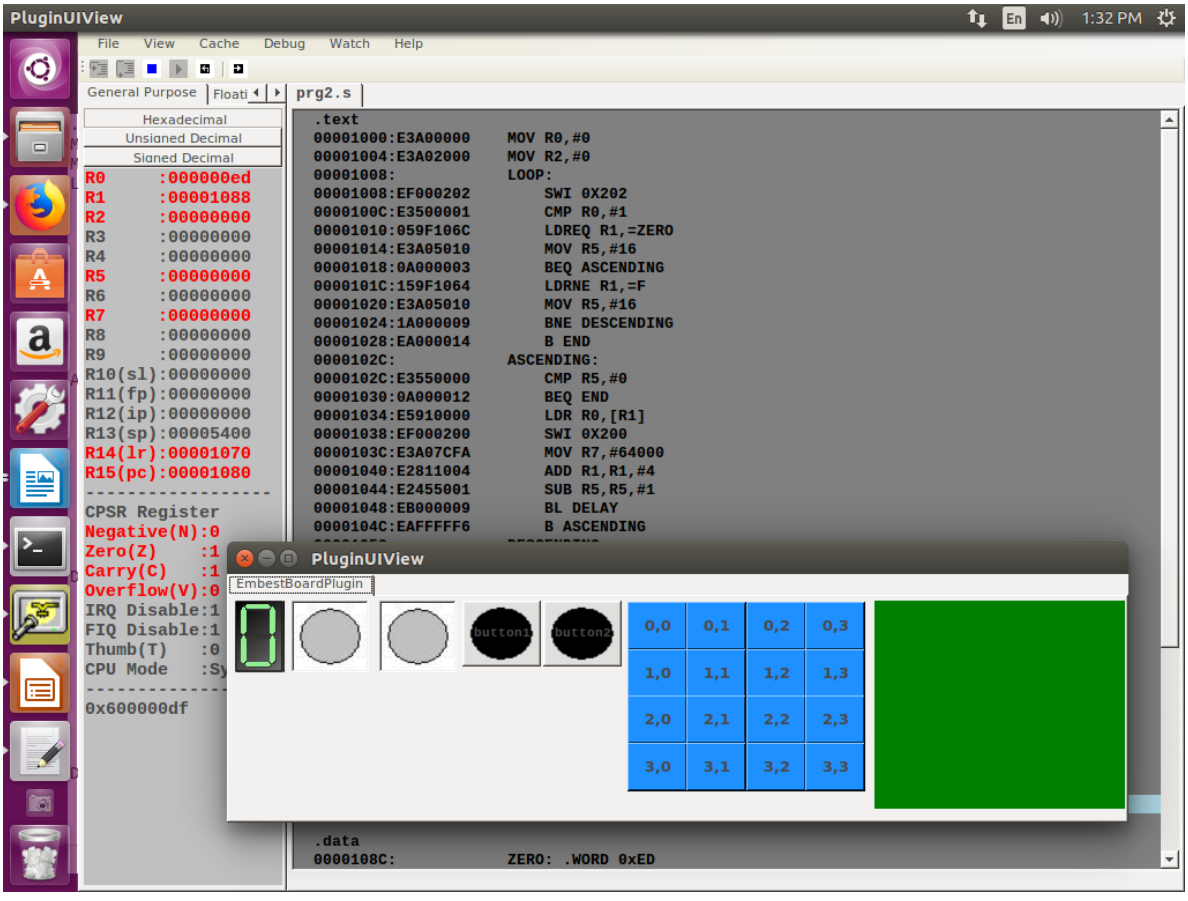
Write an ALP to display 0-9, A-F (up and down count) on an 8 segment display

I. ARM Assembly Code (1).



```
.data
ZERO: .WORD 0xED
ONE:  .WORD 0x60
TWO:  .WORD 0xCE
THREE:.WORD 0xFA
FOUR: .WORD 0x63
FIVE: .WORD 0XAB
SIX:  .WORD 0XAF
SEVEN:.WORD 0xE0
EIGHT:.WORD 0xEF
NINE: .WORD 0XE3
A:    .WORD 0XE7
B:    .WORD 0X2F
C:    .WORD 0X8D
D:    .WORD 0X6E
E:    .WORD 0X8F
F:    .WORD 0X87
.end
```

II. Output Screen Shot



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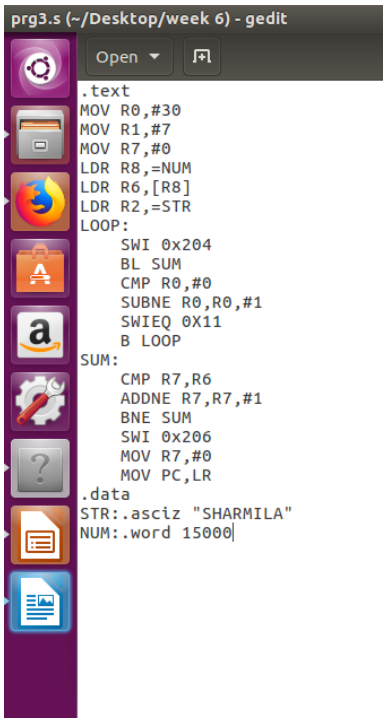
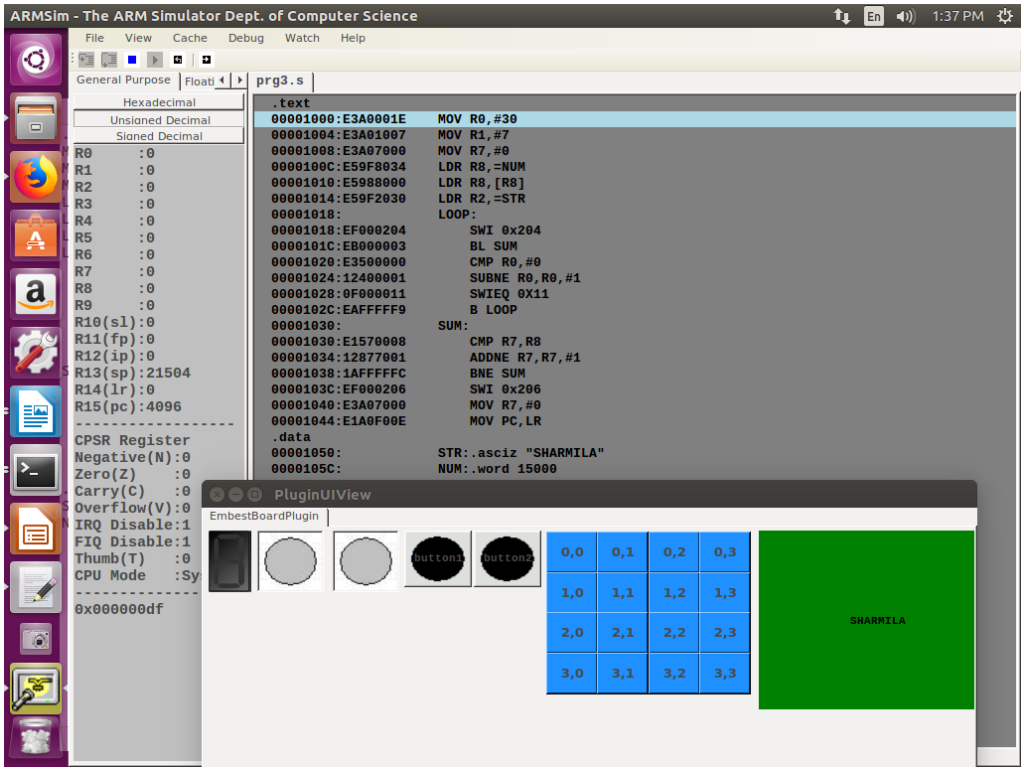
Week#____6_____ Program Number: ____3__

Write an ALP to move a string from Right to Left on LCD (40olumns by 15 rows).

I. ARM Assembly Code



II. Output Screen Shot



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.

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Section: E
Date: 6/02/2021