

**Computer Organization and Assembly Language**

Quiz# 5, Spring 2025

Tuesday, April 15, 2025

Name: \_\_\_\_\_

Roll Number: \_\_\_\_\_

Maximum Time Allowed: 20 minutes

Maximum Marks: 10

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1. Write a complete RISC-V assembly program that

- (a) Prompts the user to enter one lowercase character.
- (b) Prompts the user to choose an operation (1: same, 2: uppercase)
- (c) Performs the selected operation.
- (d) Displays the character (lowercase or uppercase) and terminates the program.

**Note:**

- Uses proper labels, assembly directives, and system calls for I/O.
- The starter code is shown below. You just need to write down the missing code.
- Use branch instructions to handle different operation choices.

**solution:**

```
.data
    prompt: .asciz "Enter a lowercase alphabet character: "
    op: .asciz "Choose operation (1: same, 2: uppercase): "
    msg: .asciz "Output: "
    newline: .asciz "\n"
    char: .space 2      # Space for 1 character + null terminator
    op_code: .space 2   # Space for operation choice

.text
.globl main
main:
#Write down your code here.
```