

### Dylan Messerly, CS 2318-002, Assignment 2 Part 1 Program A

### Program Description #####  
# Prompt the user to input an integer then display the integer  
# Prompt the user to input a string of up to 50 characters  
# maxium then display the string  
# Prompt the user to input a single character then display  
# the character  
#####

```
                .data
string:         .space 51
intPrmpt:       .ascii "Enter an integer: "
intLab:         .ascii "Your integer is: "
strPrmpt:       .ascii "Enter a string: "
strLab:         .ascii "Your string is: "
chrPrmpt:       .ascii "Enter a single character: "
chrLab:         .ascii "Your character is: "
```

#####

```
                .text
                .globl main

main:

                li $v0, 4
                la $a0, intPrmpt
                syscall

                li $v0, 5
                syscall
                move $t0, $v0

                li $v0, 4
                la $a0, intLab
                syscall

                li $v0, 1
                move $a0, $t0
                syscall

                li $v0, 11
                li $a0, '\n'
                syscall

                li $v0, 4
                la $a0, strPrmpt
                syscall

                li $v0, 8
                la $a0, string
                li $a1, 51
                syscall
```

```
li $v0, 4
la $a0, strLab
syscall
```

```
li $v0, 4
la $a0, string
syscall
```

```
li $v0, 4
la $a0, chrPrmpt
syscall
```

```
li $v0, 12
syscall
move $t0, $v0
```

```
li $v0, 11
li $a0, '\n'
syscall
```

```
li $v0, 4
la $a0, chrLab
syscall
```

```
li $v0, 11
move $a0, $t0
syscall
```

```
li $v0, 11
li $a0, '\n'
syscall
```

```
li $v0, 10
syscall
```