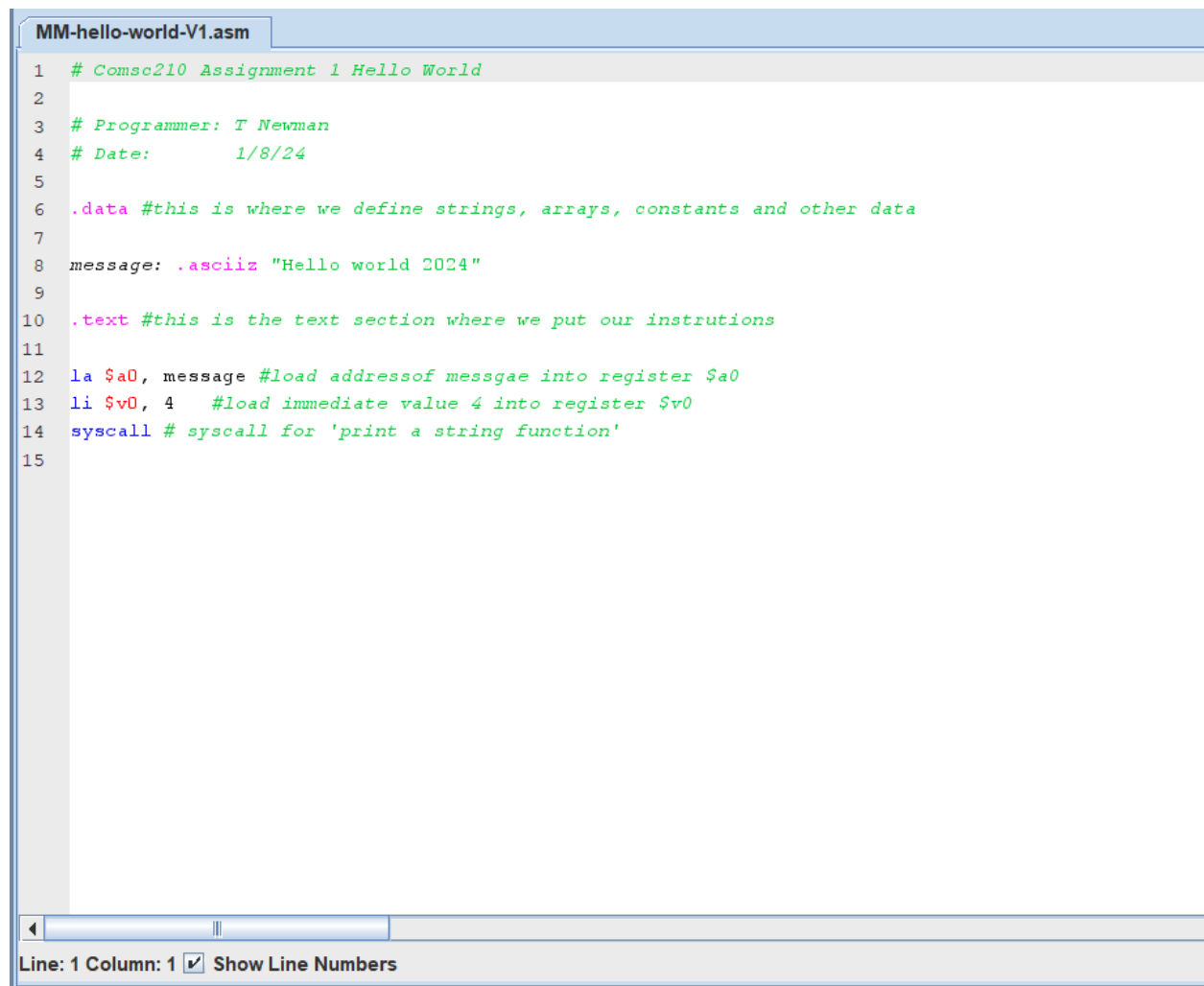


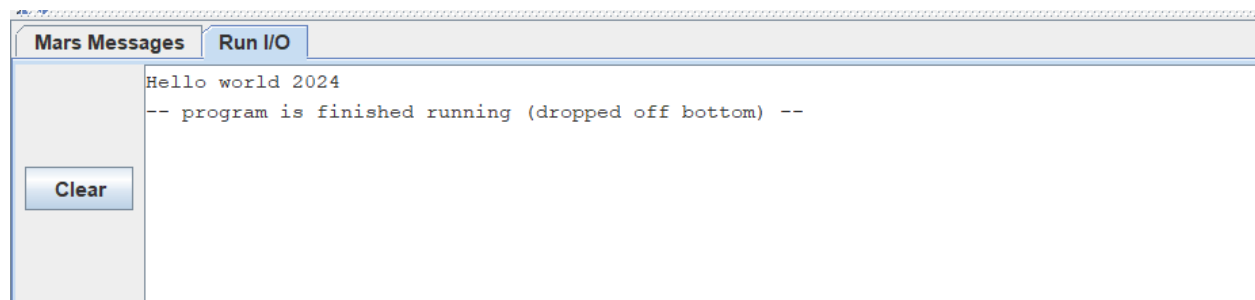
Hello-World



The screenshot shows a code editor window titled "MM-hello-world-V1.asm". The code is written in assembly language and includes line numbers from 1 to 15. The code defines a string "Hello world 2024" and prints it using the syscall instruction. The status bar at the bottom indicates "Line: 1 Column: 1" and has a checkbox for "Show Line Numbers" which is checked.

```
1  # Comsc210 Assignment 1 Hello World
2
3  # Programmer: T Newman
4  # Date:      1/8/24
5
6  .data #this is where we define strings, arrays, constants and other data
7
8  message: .asciiz "Hello world 2024"
9
10 .text #this is the text section where we put our instructions
11
12 la $a0, message #load address of message into register $a0
13 li $v0, 4      #load immediate value 4 into register $v0
14 syscall # syscall for 'print a string function'
15
```

Line: 1 Column: 1 ☒ Show Line Numbers



The screenshot shows the "Mars Messages" and "Run I/O" window. The "Mars Messages" tab is active, displaying the output of the program: "Hello world 2024" and "-- program is finished running (dropped off bottom) --". There is a "Clear" button on the left side of the window.

Mars Messages Run I/O

Hello world 2024
-- program is finished running (dropped off bottom) --

Clear

Sum-Integers

```
MM-hello-world-V1.asm  MM-Sum-Integers-V1.asm
1  # Comsc210 : Assignment 1 - Sum of Integers
2
3  #Programmer : M Manjot
4
5  #Date 1/25/2024
6
7  .data
8      prompt: .asciiz "\n Please input a value for N: "
9      result: .asciiz "\n The sum of the integers from 1 to N is "
10     bye: .asciiz "\n **** Have a good day ****"
11
12 .globl main
13
14 .text
15
16 main:
17     li $v0, 4 # system call code for Print String
18     la $a0, prompt # load address of prompt into $a0
19     syscall # print the prompt message
20     li $v0, 5 # system call code for Read Integer
21     syscall # reads the value of N into $v0
22     blez $v0, end # branch to end if $v0 <= 0
23     li $t0, 0 # clear register $t0 to zero
24
25 loop:
26     add $t0, $t0, $v0 # sum of integers in register $t0
27     addi $v0, $v0, -1 # summing integers in reverse order
28     bnez $v0, loop # branch to loop if $v0 is != zero
29     li $v0, 4 # system call code for Print String
30     la $a0, result # load address of message into $a0
31     syscall # print the string
32
33     syscall # print the string
34     li $v0, 1 # system call code for Print Integer
35     move $a0, $t0 # move value to be printed to $a0
36     syscall # print sum of integers
37     b main # branch to main
38
39 end:
40     li $v0, 4 # system call code for Print String
41     la $a0, bye # load address of msg. into $a0
42     syscall # print the string
43     li $v0, 10 # terminate program run and
44     syscall # return control to system
```

```
Mars Messages  Run I/O
Hello world 2024
-- program is finished running (dropped off bottom) --

Please input a value for N: 10

The sum of the integers from 1 to N is 55
Please input a value for N: 8

The sum of the integers from 1 to N is 36
Please input a value for N:
```