CMSC216 Week12Lab2 (Lab Work)

Last Name:

First Name:

Numeric University ID:

Complete the following task and submit your work to GradeScope

HANDWRITTEN ONLY!! Typed answers will be penalized.

`/* convert this code fragment to MIPS */`
 	
`scanf("%d", &var1);`
 	
`if(var1 < 3 && var2 == 'A'){`
`   printf("hello\n");`
`} else{`
`   printf("world\n");`
`}`
	`# data section in MIPS`
	
	`.data`
	
	`str1: .asciiz "hello"`
	`str2: .asciiz "world"`
	`var1: .word  -1`
	`var2: .byte 'A'`

Write MIPS code that achieves the same functionality to the C code fragment given above. Assume the **.data** section in the right column in the table above.

HANDWRITTEN ONLY!! Typed answers will be penalized.

```
.text
    Main:
        li $v0, 5
        syscall
        sw $v0, var1  # var1 = v0

        bge $v0, 3, else
        lb $t0, var2
        bne $t0, 65, else

        li $v0, 4
        la $a0, str1
        syscall

    else:
        li $v0, 4
        la $a0, str2
        syscall

    end:
        jr $ra
```