```
# hello.asm - print out "hello world"
#
#     a0 - points to the string
#-----------------------------------------------------------------
#           text segment                                          #
#-----------------------------------------------------------------

      .text

      .globl main
main:            # execution starts here
      la $a0, str      # put string address into a0
      li  $v0, 4 # system call to print
      syscall          # out a string

      li $v0, 10
      syscall          # exit

#-----------------------------------------------------------------
#           data segment
#-----------------------------------------------------------------

      .data

str:  .asciiz  "hellow world\n"


# end of file hello.asm
```

Service	System Call Code	Arguments	Result
print_int	1	`$a0` = integer	
print_float	2	`$f12` = float	
print_double	3	`$f12` = double	
print_string	4	`$a0` = string	
read_int	5		integer (in `$v0`)
read_float	6		float (in `$f0`)
read_double	7		double (in `$f0`)
read_string	8	`$a0` = buffer, `$a1` = length	
sbrk	9	`$a0` = amount	address (in `$v0`)
exit	10		

Table 1: SPIM System services.