```
----
                                             File Edit Format View Help
.data
       msg1: .asciiz"Enter number 1: "
                                              .data
              .asciiz"Enter number 2: "
.asciiz"Enter number 3: "
       msg2:
                                                      msg1:
                                                               .asciiz"Enter a number : "
                                                              .asciiz"Enter power :
.asciiz"Answer = "
       msg3:
                                                      msg2:
              .asciiz"Average = "
       msg4:
                                                      msg4:
.text
                                             .text
.globl main
                                             .globl main
.ent main
                                              .ent main
main:
                                             main:
       li $v0,4
                                                      li $v0,4
       la $a0,msg1
                                                      la $a0,msg1
       syscall
                                                      syscall
       li $v0,5
                                                      li $v0,5
       syscall
                                                      syscall
       move $a1,$v0
                                                      move $a1,$v0
       li $v0,4
                                                      li $v0,4
        la $a0,msg2
                                                      la $a0,msg2
        syscall
                                                      syscall
        li $v0,5
                                                      li $v0,5
       syscall
                                                      syscall
       move $a2,$v0
                                                      move $a2,$v0
       li $v0,4
       la $a0,msg3
                                                      jal calcpower
       syscall
                                                      add $t0,$0,$v0
       li $v0,5
                                                      li $v0,4
       syscall
                                                      la $a0,msg4
       move $a3,$v0
                                                      syscall
                                                      li $v0,1
        jal average
                                                      move $a0,$t0
        add $t0,$0,$v0
                                                      syscall
       li $v0,4
        la $a0,msg4
                                                      li $v0,10
        syscall
                                                      syscall
       li $v0,1
                                              .end main
       move $a0,$t0
                                             calcpower:
        syscall
                                                      addi $sp,$sp,-8
       li $v0,10
                                                      sw $s0,0($sp)
       syscall
                                                      sw $s1,4($sp)
.end main
                                                      addi $s0,$0,1
average:
                                                      add $s1,$0,$a1
       addi $sp,$sp,-8
                                             loop:
        sw $s0,0($sp)
        sw $s1,4($sp)
                                                      slt $t1,$s0,$a2
       li $s0,3
                                                      beq $t1,$0,end
                                                      mult $s1,$a1
       add $s1,$a1,$a2
                                                      mflo $s1
       add $s1,$s1,$a3
                                                      addi $s0,$s0,1
                                                      j loop
       div $s1,$s0
                                             end:
                                                      move $v0,$s1
       mflo $v0
                                                      lw $s0,0($sp)
                                                      lw $s1,4($sp)
        lw $s0,0($sp)
       lw $s1,4($sp)
                                                      addi $sp,$sp,8
        addi $sp,$sp,8
                                                      jr $ra
        jr $ra
                                            Console
  Console
```

Enter a number: 5

Enter power: 3

Answer = 125

Enter number 1: 7

Enter number 2: 3

Enter number 3: 8

Average = 6

```
File Edit Format View Help
.data
                .asciiz"Enter the number: "
        msg1:
               .asciiz"Factorial of "
.asciiz" is "
        msg2:
        msg3:
.text
.globl main
.ent main
main:
        li $v0,4
        la $a0,msg1
        syscall
        li $v0,5
        syscall
        move $a1,$v0
        jal factorial
        add $t0,$0,$v0
        li $v0,4
        la $a0,msg2
        syscall
        li $v0,1
        move $a0,$a1
        syscall
        li $v0,4
        la $a0,msg3
        syscall
        li $v0,1
        move $a0,$t0
        syscall
        li $v0,10
        syscall
.end main
factorial:
        addi $sp,$sp,-8
        sw $s0,0($sp)
        sw $s1,4($sp)
        addi $s0,$0,1
        add $s1,$0,$a1
loop:
        slt $t1,$s0,$a1
        beq $t1,$0,end
        mult $s1,$s0
        mflo $s1
        addi $s0,$s0,1
        j loop
end:
        move $v0,$s1
        lw $s0,0($sp)
        lw $s1,4($sp)
        addi $sp,$sp,8
        jr $ra
```

Console

Enter the number: 6 Factorial of 6 is 720