```
.data
        msg1:    .asciiz"Enter number 1: "
        msg2:    .asciiz"Enter number 2: "
        msg3:    .asciiz"Enter number 3: "
        msg4:    .asciiz"Average = "
.text
.globl main
.ent main
main:
        li $v0,4
        la $a0,msg1
        syscall

        li $v0,5
        syscall
        move $a1,$v0

        li $v0,4
        la $a0,msg2
        syscall
        li $v0,5
        syscall
        move $a2,$v0

        li $v0,4
        la $a0,msg3
        syscall

        li $v0,5
        syscall
        move $a3,$v0

        jal average
        add $t0,$0,$v0

        li $v0,4
        la $a0,msg4
        syscall
        li $v0,1
        move $a0,$t0
        syscall
        li $v0,10
        syscall
.end main
average:
        addi $sp,$sp,-8
        sw $s0,0($sp)
        sw $s1,4($sp)
        li $s0,3

        add $s1,$a1,$a2
        add $s1,$s1,$a3

        div $s1,$s0

        mflo $v0

        lw $s0,0($sp)
        lw $s1,4($sp)
        addi $sp,$sp,8
        jr $ra
```

Console

```
Enter number 1: 7
Enter number 2: 3
Enter number 3: 8
Average = 6
```

```
.data
        msg1:    .asciiz"Enter a number : "
        msg2:    .asciiz"Enter power : "
        msg4:    .asciiz"Answer = "
.text
.globl main
.ent main
main:
        li $v0,4
        la $a0,msg1
        syscall
        li $v0,5
        syscall
        move $a1,$v0

        li $v0,4
        la $a0,msg2
        syscall
        li $v0,5
        syscall
        move $a2,$v0

        jal calcpower
        add $t0,$0,$v0

        li $v0,4
        la $a0,msg4
        syscall
        li $v0,1
        move $a0,$t0
        syscall

        li $v0,10
        syscall
.end main
calcpower:
        addi $sp,$sp,-8
        sw $s0,0($sp)
        sw $s1,4($sp)
        addi $s0,$0,1
        add $s1,$0,$a1
loop:
        slt $t1,$s0,$a2
        beq $t1,$0,end
        mult $s1,$a1
        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 a number : 5
Enter power : 3
Answer = 125
```

```
.data
        msg1:    .asciiz"Enter the number: "
        msg2:    .asciiz"Factorial of "
        msg3:    .asciiz" is "
.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
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Enter the number: 6
Factorial of 6 is 720