CODE:

```
.data
tnum: .asciiz "Enter table Number = "
new: .asciiz "\n"
a: .word 1
b: .word 1
num: .word 1
s1: .asciiz "*"
s2: .asciiz "="

.text
lw $t0, a
lw $t1, b
lw $t2, num
	#string1 (TABLE NUMBER)
li $v0, 4
la $a0 , tnum
syscall
	#input
li $v0, 5
syscall
move $t0 , $v0

	#LOOP
loop:
	# compare
beq $t1, 11, Exit

# Multiply
mul $t2, $t0, $t1
```

```
        # (a)
move $a0, $t0
li $v0, 1
syscall
        # ( * sign )
li $v0, 4
la $a0 , s1
syscall
        # (b)
move $a0, $t1
li $v0, 1
syscall
        # ( = sign )
li $v0, 4
la $a0 , s2
syscall
        # NUMBER OUTPUT
move $a0, $t2
li $v0,1
syscall
        #string 2 (NEWLINE)
li $v0, 4
la $a0 , new
syscall



add $t1, $t1, 1
j loop

Exit:
li $v0, 10
```

syscall

OUTPUT:

```
Enter table Number = 4
4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
4*7=28
4*8=32
4*9=36
4*10=40
```

CODE:

```
.data
integer: .asciiz "Enter a positive Integer = "
sumout: .asciiz "Sum = "
num: .word 0
count: .word 0
sum: .word 0

.text
lw $t0, num
lw $t1, count
lw $t2, sum

li $v0, 4
la $a0, integer
syscall
        #Integer Input
li $v0, 5
syscall
move $t0 , $v0

loop:
```

```
        #Condition
bge $t1, $t0, exit

        #Increment
add $t1, $t1, 1

        # Sum Calculation
add $t2, $t2, $t1

j loop
exit:



li $v0, 4
la $a0, sumout
syscall



move $a0, $t2
li $v0,1

syscall
li $v0, 10
syscall
```

OUTPUT:

```
Enter a positive Integer = 15
Sum = 120
```

CODE:

```
.data
new:.asciiz "\n"

i:.word 0

.text

lw $t0, i

add $t0, $t0, 11
move $a0, $t0
li $v0,1
syscall

#newline
li $v0,4
la $a0, new
syscall

loop:
        # i>0
blez  $t0, exit

        #i-=2
sub $t0, $t0, 2

        # after -2
move $a0, $t0
li $v0,1
syscall
```

```
#newline
li $v0,4
la $a0, new
syscall

j loop
exit:
li $v0, 10
syscall
```

OUTPUT:

```
-1
```