

Correction TD6

Solution exercice 1:

```
.data
message: .asciiz " le nombre est inferieur à l'autre"
.text
addi $t0, $zero, 300
addi $t1, $zero, 200

    slt $s0, $t0, $t1
    bne $s0, $zero, affichermesssage
# li $v0, 1
# move $a0, $s0
# syscall

li $v0, 10
syscall

affichermesssage:
li $v0, 4
la $a0, message
syscall
```

Solution exercice 2:

```
.data
message :.asciiz "bonjour tout le monde.\n TP assembleur.\n"
.text
main :
jal affichermesssage

li $v0,10
syscall

affichermesssage :
li $v0, 4
la $a0, message
syscall

jr $ra
```

Solution exercice 3:

```
.data
.text
main :
addi $a1, $zero, 50
addi $a2, $zero,100

jal additionnernombres
li $v0, 1
addi $a0, $v1, 0
```

```
syscall
```

```
li $v0, 10
```

```
syscall
```

```
additionnombres:
```

```
add $v1, $a1, $a2
```

```
jr $ra
```

Solution exercice 4 :

```
.data
```

```
nombre: .word 1
```

```
entree: .asciiz "donnez le nombre SVP:"
```

```
sortie: .asciiz "son factoriel est :"
```

```
.text
```

```
lw $t1, nombre
```

```
lw $t2, entree
```

```
lw $t4, nombre
```

```
li $v0, 4
```

```
la $a0, entree
```

```
syscall
```

```
li $v0, 5
```

```
syscall
```

```
move $t3, $v0
```

```
boucle:
```

```
jal factoriel
```

```
b boucle
```

```
factoriel:
```

```
mul $t4, $t4, $t2
```

```
beq $t2, $t3, fin
```

```
add $t2, $t2, $t1
```

```
jr $ra
```

```
fin:
```

```
li $v0, 4
```

```
la $a0, sortie
```

```
syscall
```

```
li $v0, 1
```

```
move $a0, $t4
```

```
syscall
```