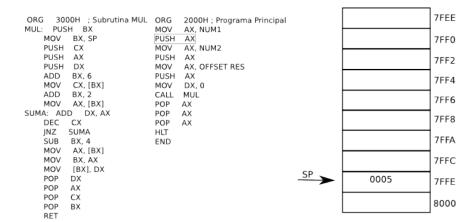
Practica 1 - Subrutinas

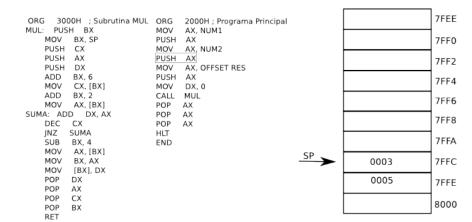
7 de septiembre de 2012

```
7FFF
ORG
     3000H ; Subrutina MUL
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                 AX. NUM1
    MOV
          BX. SP
                           PUSH
                                 AX
                                                                                      7FF0
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
          AX
                           PUSH
                                 AX
                                                                                      7FF2
    PUSH
         DX
                           MOV
                                 AX, OFFSET RES
    ADD
         BX, 6
                           PUSH
                                AX
                                                                                      7FF4
    MOV CX, [BX]
                           MOV
                                 DX. 0
    ADD
         BX. 2
                           CALL
                                MUL
                                                                                      7FF6
    MOV AX, [BX]
                           POP
                                 AX
SUMA: ADD DX, AX
                           POP
                                 AX
                                                                                      7FF8
    DEC
         CX
                           POP
                                 AX
   JNZ
         SUMA
                           HLT
                                                                                      7FFA
    SUB
         BX. 4
                           END
    MOV
         AX, [BX]
                                                                                      7FFC
    MOV
         BX, AX
    MOV
         [BX], DX
    POP
         DX
                                                                                      7FFF
    POP
         AX
    POP
         CX
                                                                                      8000
    POP
         BX
    RET
```

BX .



BX 、

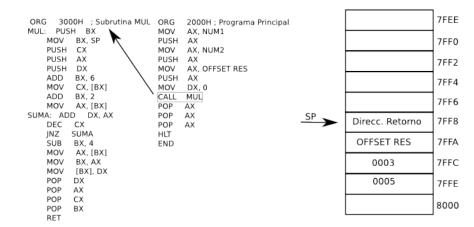


BX 、

RET

```
7FFF
ORG
     3000H ; Subrutina MUL
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                 AX. NUM1
    MOV
          BX. SP
                           PUSH
                                 AX
                                                                                      7FF0
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
          AX
                           PUSH
                                 AX
                                                                                      7FF2
    PUSH
         DX
                           MOV
                                 AX, OFFSET RES
    ADD
         BX, 6
                           PUSH
                                 AX
                                                                                      7FF4
    MOV CX, [BX]
                           MOV
                                 DX. 0
    ADD
         BX. 2
                           CALL
                                 MUL
                                                                                      7FF6
    MOV AX, [BX]
                           POP
                                AX
SUMA: ADD DX, AX
                           POP
                                AX
                                                                                      7FF8
    DEC
         CX
                           POP
                                AX
   JNZ
         SUMA
                           HLT
                                                         SP 🔪
                                                                     OFFSET RES
                                                                                      7FFA
    SUB
         BX. 4
                           END
    MOV
         AX, [BX]
    MOV
         BX. AX
                                                                        0003
                                                                                      7FFC
    MOV
         [BX], DX
    POP
         DX
                                                                        0005
                                                                                      7FFF
    POP
         AX
    POP
         CX
                                                                                      8000
    POP
         BX
```

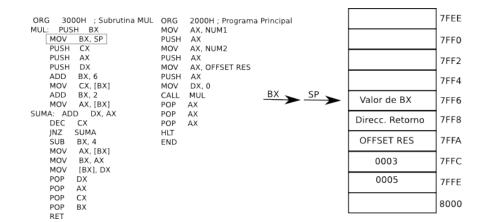


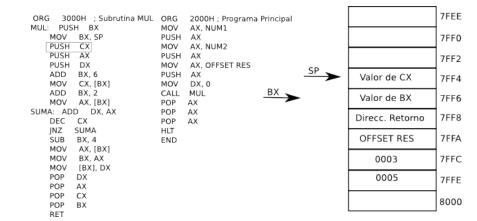


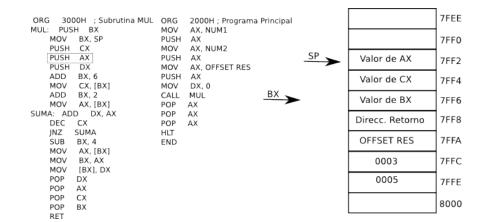
BX ,

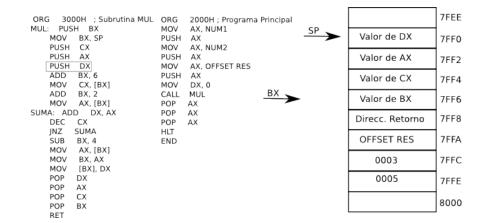
```
7FFF
ORG
     3000H ; Subrutina MUL
                           ORG
                                 2000H: Programa Principal
MUL: PUSH BX
                           MOV
                                 AX. NUM1
    MOV
          BX. SP
                           PUSH
                                 AX
                                                                                      7FF0
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
          AX
                           PUSH
                                 AX
                                                                                      7FF2
    PUSH
          DX
                           MOV
                                 AX. OFFSET RES
    ADD
         BX, 6
                           PUSH
                                 AX
                                                                                      7FF4
    MOV CX, [BX]
                           MOV
                                 DX. 0
                                                          SP 🔪
    ADD
         BX. 2
                           CALL
                                 MUL
                                                                     Valor de BX
                                                                                      7FF6
    MOV AX, [BX]
                           POP
                                AX
SUMA: ADD DX, AX
                                AX
                           POP
                                                                                      7FF8
                                                                    Direcc. Retorno
    DEC
         CX
                           POP
                                AX
   JNZ
         SUMA
                           HLT
                                                                     OFFSET RES
                                                                                      7FFA
    SUB
         BX. 4
                           END
    MOV
         AX, [BX]
    MOV
         BX. AX
                                                                        0003
                                                                                      7FFC
    MOV
         [BX], DX
    POP
         DX
                                                                        0005
                                                                                      7FFF
    POP
         AX
    POP
         CX
                                                                                      8000
         BX
    POP
    RET
```

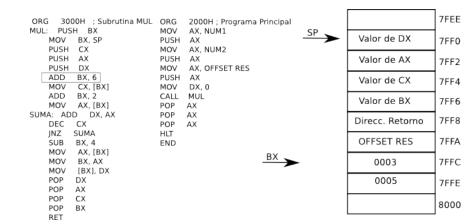
BX 、

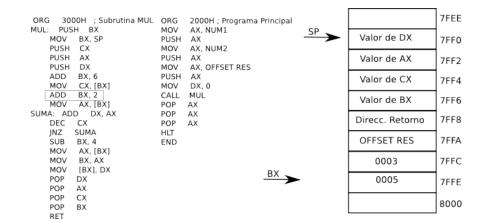


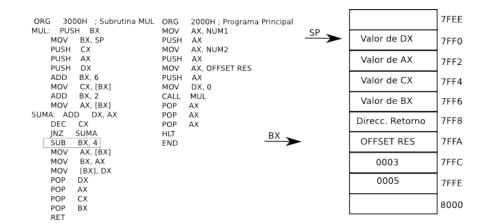


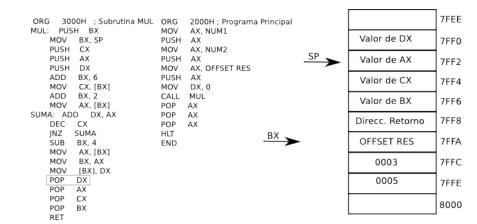


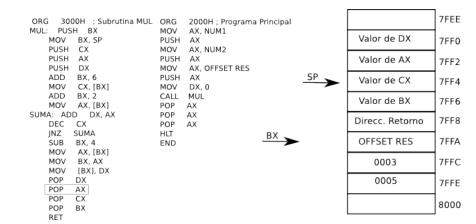


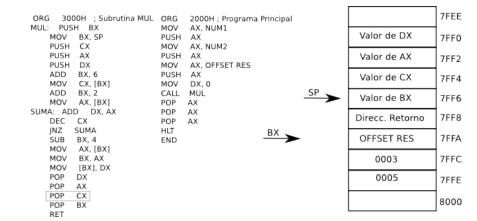






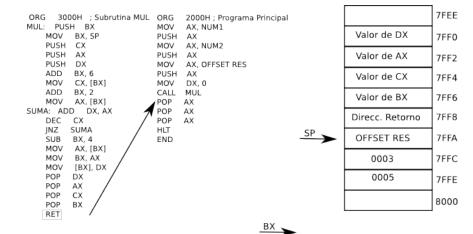






```
7FEE
ORG
     3000H : Subrutina MUL
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                  AX, NUM1
                                                                      Valor de DX
    MOV
          BX, SP
                           PUSH
                                                                                       7FF0
                                  AX
    PUSH
          CX
                           MOV
                                  AX, NUM2
    PUSH
         AX
                           PUSH
                                  AX
                                                                      Valor de AX
                                                                                       7FF2
    PUSH
          DX
                           MOV
                                  AX. OFFSET RES
    ADD
          BX. 6
                           PUSH
                                  AX
                                                                      Valor de CX
                                                                                       7FF4
    MOV
         CX, [BX]
                           MOV
                                  DX, 0
    ADD
          BX, 2
                           CALL
                                 MUL
                                                                      Valor de BX
                                                                                       7FF6
    MOV
          AX, [BX]
                           POP
                                 AX
SUMA: ADD DX, AX
                           POP
                                 AX
                                                           SP 、
                                                                     Direcc. Retorno
                                                                                       7FF8
    DEC
         CX
                           POP
                                 AX
   JNZ
         SUMA
                           HLT
                                                                      OFFSET RES
                                                                                       7FFA
    SUB
         BX. 4
                           END
    MOV
         AX. [BX]
    MOV
         BX, AX
                                                                         0003
                                                                                       7FFC
    MOV
         [BX], DX
    POP
         DX
                                                                          0005
                                                                                       7FFE
    POP
         AX
    POP
         CX
                                                                                       8000
    POP
         ВХ
    RET
```

BX 🔪



RET

```
7FEE
ORG
     3000H : Subrutina MUL
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                 AX, NUM1
                                                                      Valor de DX
    MOV
          BX, SP
                           PUSH
                                                                                       7FF0
                                 AX
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
         AX
                           PUSH
                                 AX
                                                                      Valor de AX
                                                                                       7FF2
    PUSH
          DX
                           MOV
                                 AX. OFFSET RES
    ADD
         BX. 6
                           PUSH
                                 AX
                                                                      Valor de CX
                                                                                       7FF4
    MOV
         CX, [BX]
                           MOV
                                 DX, 0
    ADD
          BX, 2
                           CALL
                                 MUL
                                                                      Valor de BX
                                                                                       7FF6
                           POP
    MOV
          AX, [BX]
                                 AX
SUMA: ADD DX, AX
                           POP
                                 AX
                                                                                       7FF8
                                                                     Direcc. Retorno
    DEC
         CX
                           POP
                                 AX
   JNZ
         SUMA
                           HLT
                                                                      OFFSET RES
                                                                                       7FFA
    SUB
         BX. 4
                           END
    MOV
         AX. [BX]
                                                          SP >
    MOV
         BX, AX
                                                                         0003
                                                                                       7FFC
    MOV
         [BX], DX
    POP
         DX
                                                                         0005
                                                                                       7FFE
    POP
         AX
    POP
         CX
                                                                                       8000
    POP
         BX
```

BX 🔪

RET

```
7FEE
ORG
     3000H : Subrutina MUL
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                 AX, NUM1
                                                                      Valor de DX
    MOV
          BX, SP
                           PUSH
                                                                                       7FF0
                                 AX
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
         AX
                           PUSH
                                 AX
                                                                      Valor de AX
                                                                                       7FF2
    PUSH
          DX
                           MOV
                                 AX. OFFSET RES
    ADD
         BX. 6
                           PUSH
                                 AX
                                                                      Valor de CX
                                                                                       7FF4
    MOV
         CX, [BX]
                           MOV
                                 DX, 0
    ADD
         BX, 2
                           CALL
                                 MUL
                                                                      Valor de BX
                                                                                       7FF6
    MOV
          AX, [BX]
                           POP
                                 AX
SUMA: ADD DX, AX
                           POP
                                 AX
                                                                                       7FF8
                                                                     Direcc. Retorno
    DEC
         CX
                           POP
                                 AX
   JNZ
         SUMA
                           HLT
                                                                      OFFSET RES
                                                                                       7FFA
    SUB
         BX. 4
                           END
    MOV
         AX. [BX]
    MOV
         BX, AX
                                                                         0003
                                                                                       7FFC
    MOV
         [BX], DX
                                                          SP >
    POP
         DX
                                                                         0005
                                                                                       7FFE
    POP
         AX
    POP
         CX
                                                                                       8000
    POP
         BX
```

BX 🔪

```
7FEE
     3000H : Subrutina MUL
ORG
                           ORG
                                 2000H; Programa Principal
MUL:
     PUSH BX
                           MOV
                                 AX, NUM1
                                                                      Valor de DX
    MOV
          BX, SP
                           PUSH
                                                                                       7FF0
                                 AX
    PUSH
          CX
                           MOV
                                 AX, NUM2
    PUSH
         AX
                           PUSH
                                 AX
                                                                      Valor de AX
                                                                                       7FF2
    PUSH
          DX
                           MOV
                                 AX. OFFSET RES
    ADD
         BX. 6
                           PUSH
                                 AX
                                                                      Valor de CX
                                                                                       7FF4
    MOV
         CX, [BX]
                           MOV
                                 DX, 0
    ADD
         BX, 2
                           CALL
                                 MUL
                                                                      Valor de BX
                                                                                       7FF6
    MOV
          AX, [BX]
                           POP
                                 AX
SUMA: ADD DX, AX
                           POP
                                 AX
                                                                                       7FF8
                                                                     Direcc. Retorno
    DEC
         CX
                                 AX
                           POP
   JNZ
         SUMA
                           HLT
                                                                      OFFSET RES
                                                                                       7FFA
    SUB
         BX. 4
                           END
    MOV
         AX. [BX]
    MOV
         BX, AX
                                                                         0003
                                                                                       7FFC
    MOV
         [BX], DX
    POP
         DX
                                                                         0005
                                                                                       7FFE
    POP
         AX
                                                          SP >
    POP
         CX
                                                                                       8000
    POP
         BX
    RET
```

вх 🦴