Practica 1 - Subrutinas

28 de agosto de 2018

```
7FEE
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
   MOV
        BX, [BX]
                          CALL MUL
                                                                                    7FF6
   ADD
        BX, 2
                          POP
                               AX
   MOV AX. [BX]
                          POP
                               AX
                                                                                    7FF8
SUMA: ADD DX, AX
                          POP
                               AX
   DEC
         CX
                          HLT
                                                                                    7FFA
   INZ
        SUMA
                          END
        BX, 4
   SUB
   MOV
        AX, [BX]
                                                                                   7FFC
   MOV
        BX, AX
   MOV
        [BX], DX
                                                                                   7FFE
   POP
         DX
   POP
         AX
                                                                                   8000
   POP
        CX
   POP
         вх
   RET
                                                        BX 🔪
```

```
7FEE
ORG
      3000H ; Subrutina MUL
                               2000H ; Programa Principal
                          ORG
MUL: PUSH BX
                          MOV
                                AX, NUM1
   MOV
                          PUSH
                                AX
         BX. SP
                                                                                    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
   MOV
        BX, [BX]
                          CALL MUL
                                                                                    7FF6
   ADD
        BX, 2
                          POP
                                AX
   MOV AX. [BX]
                          POP
                                AX
                                                                                    7FF8
SUMA: ADD DX, AX
                          POP
                                AX
   DEC
         CX
                          HLT
                                                                                    7FFA
   INZ
         SUMA
                          END
   SUB
        BX, 4
   MOV
        AX, [BX]
                                                                                    7FFC
   MOV
        BX, AX
   MOV
        [BX], DX
                                                                       0005
                                                                                    7FFE
   POP
         DX
   POP
         AX
                                                                                    8000
   POP
         CX
   POP
         вх
   RET
                                                         BX 🔪
```

```
7FEE
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
   MOV
        BX, [BX]
                          CALL MUL
                                                                                   7FF6
   ADD
        BX, 2
                          POP
                               AX
   MOV AX. [BX]
                          POP
                               AX
                                                                                   7FF8
SUMA: ADD DX, AX
                          POP
                               AX
   DEC
         CX
                          HLT
                                                                                   7FFA
   INZ
        SUMA
                          END
   SUB
        BX, 4
                                                       SP 🔪
   MOV
        AX, [BX]
                                                                      0003
                                                                                   7FFC
   MOV
        BX, AX
   MOV
        [BX], DX
                                                                      0005
                                                                                   7FFE
   POP
         DX
   POP
         AX
                                                                                   8000
   POP
        CX
   POP
         вх
   RET
                                                        BX 🔪
```

```
7FEE
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
   MOV
        BX, [BX]
                          CALL MUL
                                                                                   7FF6
   ADD
        BX, 2
                          POP
                               AX
   MOV AX. [BX]
                          POP
                               AX
                                                                                   7FF8
SUMA: ADD DX, AX
                          POP
                               AX
   DEC
         CX
                          HLT
                                                       SP 🔪
                                                                   OFFSET RES
                                                                                   7FFA
   INZ
        SUMA
                          END
        BX, 4
   SUB
   MOV
        AX, [BX]
                                                                      0003
                                                                                   7FFC
   MOV
        BX, AX
   MOV
        [BX], DX
                                                                      0005
                                                                                   7FFE
   POP
         DX
   POP
         AX
                                                                                   8000
   POP
        CX
   POP
         вх
   RET
                                                        BX 🔪
```



































