

Macro

- Macro is compiler's utility for text replacement. In compile time the name of the macro replaced by the content of the macro. Like #define in C language.
- In our compiler, the macro defined by the pseudo-instructions MACRO - ENDM.
- We can transferred argument to the macro.
- Macro is faster then subroutine but take more memory.
- Lets demonstrate macro by an example:

Macro Example

```

InitSub  MACRO
        XAB
        PSH
        MAS
        XAB
InitSub  ENDM

FinSub   MACRO n
        XAB
        MSA
        POP
        XAB
        RET    n
FinSub   ENDM

MLocal  MACRO n
        LLI    -n
        STA    BX
        MAS
        ADD    BX
        MSA
MLocal  ENDM
    
```

```

Sum:    InitSub
        Mlocal  1
        LAB    2
        SNZ
        JMP    sof
        SAB    -1
        DER
        PSH
        CAL    Sum
        STA    BX
        LAB    -1
        ADD    BX
sof:    FinSub  1
    
```

```

Main:   LDA    X1
        PSH
        CAL    Sum
        STA    X3
        HLT
=====
BX:     DEC    0
X1:     DEC    3
X3:     DEC    0
    
```