Passing Argument Via the Stack

Question: Calling the subroutine using the stack.

Answer:
```
        title calc (calc.asm - a separated file)
        public calc
        .model small
        .code
calc    proc near                       ; evaluates X - 2Y, the result in ax.
        push        bp                  ; save bp.
        mov         bp, sp              ; bp points to the stack top.
        mov         ax, [bp + 4]        ; ax has X.
        sub         ax, [bp + 6]        ; ax = X - Y.
        sub         ax, [bp + 6]        ; ax = X - 2Y.
        pop         bp                  ; restore bp.
        ret         4                   ; pop IP and add 4 to sp.
calc    endp
        end
```

Question: Calling the subroutine by reference using the stack.

Answer:
```
        title calc (calc.asm - a separated file)
        public calc
        .model small
        .code
calc    proc near                       ; evaluates X - 2Y, the result in ax.
        push        bp                  ; save bp.
        mov         bp, sp              ; bp points to the stack top.
        mov         bx, [bp + 4]        ; bx has the address of X.
        mov         ax, [bx]            ; as has the value of X.
        mov         bx, [bp + 6]        ; bx has the address of Y.
        sub         ax, [bx]            ; ax = X - Y.
        sub         ax, [bx]            ; ax = X - 2Y.
        pop         bp                  ; restore bp.
        ret         4                   ; pop IP and add 4 to sp.
calc    endp
        end
```