

Question 3. The following main subroutine shows a calling sequence for a subroutine named Add3 that adds three dword:

```
main PROC
push 10h
push 20h
push 30h
call Add3
push 40h
    INVOKE ExitProcess,0
main ENDP
```

Create a subroutine named Add3 that receives three integer parameters and calculates and returns their sum in the EAX register (assume the callee uses EBP).

Answer: One of the many possible solutions.

```
.386
.model flat, stdcall
.stack 4096

ExitProcess PROTO, dwExitCode: DWORD

.data

.code
main PROC
    push 10h
    push 20h
    push 30h
    call Add3
    push 40h

    invoke ExitProcess, 0
main ENDP
Add3 PROC
    push ebp
    mov ebp, esp

    mov eax, [ebp+16]
    add eax, [ebp+12]
    add eax, [ebp+8]

    pop ebp
    ret
Add3 ENDP

END main
```