## Chap 8 (Week 10)

```
組別 45
組員
   107201023 蔡沐霖
   107201535 陳羽暉
   107201522 蘇柏瑜
1. Passing Arguments by Value
   .data
   val1 DWORD 5
   val2 DWORD 6
   .code
   push val2
   push val1
   Call AddTwo
   Equivalent function call in C++ would be:
    AddTwo(val1,val2);
2. Passing Arguments by Reference
   .data
    val1 DWORD 5
    val2 DWORD 6
    .code
    push OFFSET val2
    push OFFSET val1
    Call Swap
    Equivalent function call in C++ would be:
    Swap(val1,val2);
3. Create a procedure named Difference that subtracts the second argument(Val2)
   from the first one(Val1). (Val1 – Val2)
   Following is a sample call:
   push 14
                   ; Val2
   push 30
                   ; Val1
   call Difference ; EAX = 16
   Difference PROC
     mov eax,val1
     sub eax,val2
     ret
```

Difference ENDP

```
1.
    CopyString PROC, count: DWORD
        LOCAL temp[20]: BYTE
         mov edi, OFFSET count ; invalid operand
         mov esi, OFFSET temp ; invalid operand
          lea edi, count
          lea esi, temp
2.
   Difference PROC
        push ebp
        mov ebp, esp
        mov eax, [ebp + 8]; first argument
               eax, [ebp + 12] ; second argument
        sub
        pop ebp
        ret
              8
   Difference ENDP
   Difference PROC
          enter 0, 0
        mov eax, [ebp + 8]
                               ; first argument
        sub eax, [ebp + 12]
                               ; second argument
        pop ebp
        ret 8
    Difference ENDP
3.
    Example1 PROC
        LOCAL tempArray[4]:DWORD
        ret
    Example1 ENDP
    Example1 PROC
          push ebp
          mov ebp, esp
          add esp, OFFFFFFCh
          mov esp, ebp
          pop ebp
        ret
        Example1 ENDP
```