Assembly Language HW#1 (Due: 3/24)

- Write an assembly program using the LOOP instruction with indirect addressing that performs the following corresponding statements in C++. Use the following variables.

```assembly
wordArray1 WORD  1011h, 2022h, 3033h, 4044h, 5055h, 6066h
wordArray2 WORD  2011h, 3022h, 4033h, 5044h, 6055h, 7066h
wordArray3 WORD  3011h, 4022h, 5033h, 6044h, 7055h, 8066h
sumArray DWORD LENGTHOF wordArray1 DUP(0)
```

```c
for( i=0; i< lengthof sumArray; i++)
    sumArray[ i ] = wordArray3[ i ] – ( wordArray2[ i ] – wordArray1[ i ] );
```

- Please hand-in the report with following items
  1. the source code listing
  2. the content of the captured debugging screen
     - Please capture the screen of VS2005 memory debugging window to show the memory content of `sumArray before` and `after` the execution of your program.
  3. your comments on the source code and the captured debugging screen