**Size Mismatch Errors – Practice Problems**

**Activity 1: Make memory of the following data on your paper and debug the program. Verify your output on AFD.**

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| **Activity 1:**  [org 0x0100]  mov al, [num1] ;load num 1 in ax  mov [num1+6], ax ;write data from ax in number 4  mov ax, [num1+1] ;load num 2 in ax  add [num1+5], al ;add 2 numbers  mov ax, [num1+4] ;load num 3 in ax  add [num1+6], ah ;add 2 numbers  mov ax, 0x4c00 ;terminate the program  int 0x21  num1: dw 0xabcd, 0x1234, 0x279A, 0 |

**Memory Configuration after Execution:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Memory Address** | **Num1+0** | **+1** | **+2** | **3** | **4** | **5** | **6** | **7** | **8** |
| **Memory Content** |  |  |  |  |  |  |  |  |  |
| **Memory Address** | **+9** | **+A** | **+B** |  |  |  |  |  |  |
| **Memory Content** |  |  |  |  |  |  |  |  |  |

**Activity 2:** Write a program that copies data from one array data1 to another array data2. Initially data1 will have 2,4,6,8,10 and data2 will have all zeros in it.