

Part 1

1. Val LABEL DWORD BYTE 04H,03H,02H,01H for the value of 01020304H
2. Yes, I can but the assembler doesn't check the number's sign
3. ABH, 89H, 67H 45H
4. Array DWORD 120 DUP(?)
5. Array BYTE "ABCDE"
6. Val SDWORD 80000000H
7. wArray WORD 1000H, 2000H, 3000H
8. favColor BYTE "red", 00H
9. dArray SDWORD 50 DUP(?)
10. note BYTE 500 DUP("TEST")
11. bArray BYTE 20 DUP(0)
12. 21H, 43H, 65H, 87H

Part 2

```
; Program Template (lab7p1.asm)
; Program Description: Defines symbolic constants for all of the days of the week
; Author: Timothy Bryant
; Creation Date: 2/27/2021
; Revisions:
; Date:
; Modified by:
.386
.model flat,stdcall
.stack 4096
ExitProcess PROTO, dwExitCode:DWORD

.data
; declare variables here
SUN = 0
MON = 1
TUE = 2
WED = 3
THU = 4
FRI = 5
SAT = 6
daysArray BYTE SUN, MON, TUE, WED, THU, FRI, SAT

.code
main PROC
;write your code here

INVOKE ExitProcess,0
main ENDP
; (insert additional procedures here)
END main
```

```
Registers
EAX = 00B3FD88 EBX = 008A3000 ECX = 00D91005 EDX = 00D91005 ESI = 00D91005 EDI = 00D91005 EIP = 00D91010 ESP = 00B3FD30 EBP = 00B3FD3C EFL = 00000246
```

```
Registers
EAX = 010FFFC0 EBX = 00E1F000 ECX = 00D91005 EDX = 00D91005 ESI = 00D91005 EDI = 00D91005 EIP = 00D91005 ESP = 010FFFC8 EBP = 010FFFC4 EFL = 00000246
```

```
; Program Template (lab7p2.asm)
; Program Description: Definition of each data type in the table with values that
consisten with its data type
```

```
; Author: Timothy Bryant
; Creation Date: 2/26/2021
; Revisions: added values to variables
; Date: 3/1/2021
; Modified by: Timothy Bryant
```

```
.386
.model flat,stdcall
.stack 4096
ExitProcess PROTO, dwExitCode:DWORD
```

```
.data
; declare variables here
val1 BYTE 12H
val2 SBYTE -12H
val3 WORD 2834H
val4 SWORD -2834H
val5 DWORD 12742834H
val6 SDWORD -12742834H
val7 FWORD 127428343456H
val8 QWORD 1274283434567891H
val9 TBYTE 1000000000123456789AH
val10 REAL4 -1.0
val11 REAL8 1.0E-260
val12 REAL10 1.0E+4000
```

```
.code
main PROC
;write your code here
```

```
INVOKE ExitProcess,0
main ENDP
; (insert additional procedures here)
END main
```

Registers

EAX = 00E6FEC4 EBX = 010A1000 ECX = 00E91005 EDX = 00E91005 ESI = 00E91005 EDI = 00E91005 EIP = 00E91010 ESP = 00E6FE6C EBP = 00E6FE78 EFL = 00000246

Registers

EAX = 012FF888 EBX = 0109F000 ECX = 00E91005 EDX = 00E91005 ESI = 00E91005 EDI = 00E91005 EIP = 00E91005 ESP = 012FF860 EBP = 012FF86C EFL = 00000246