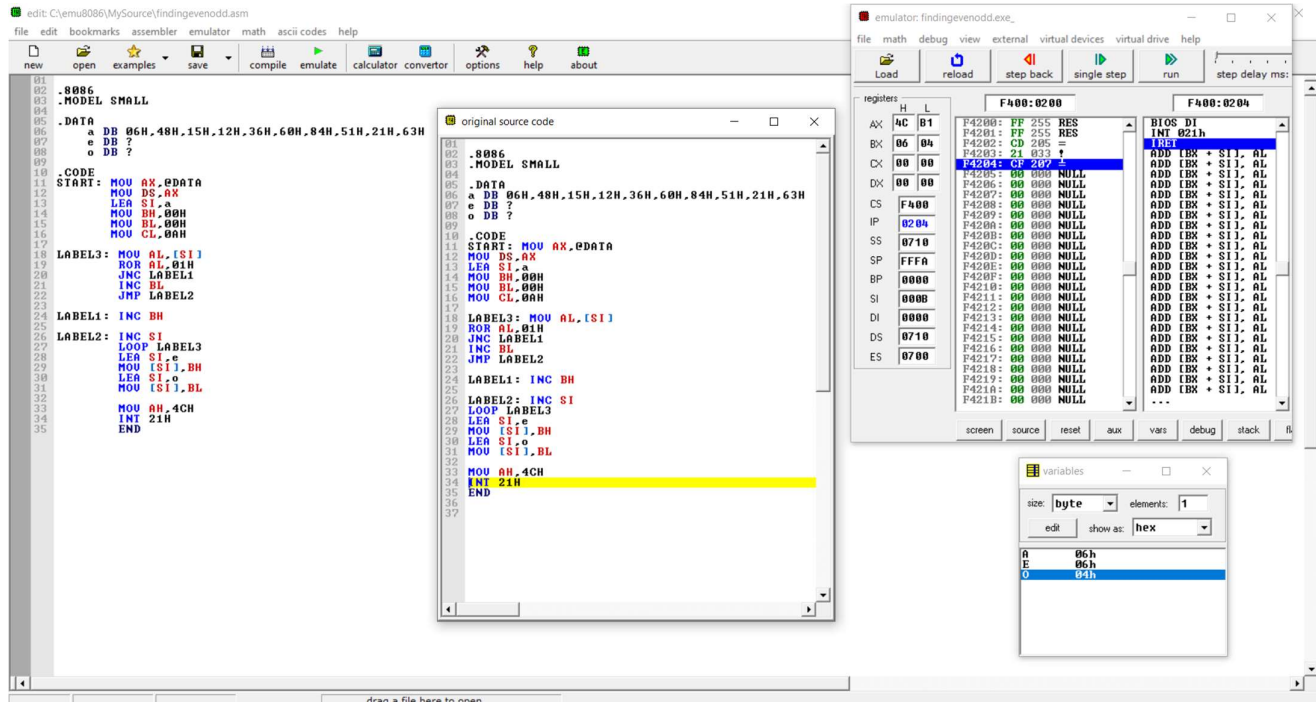


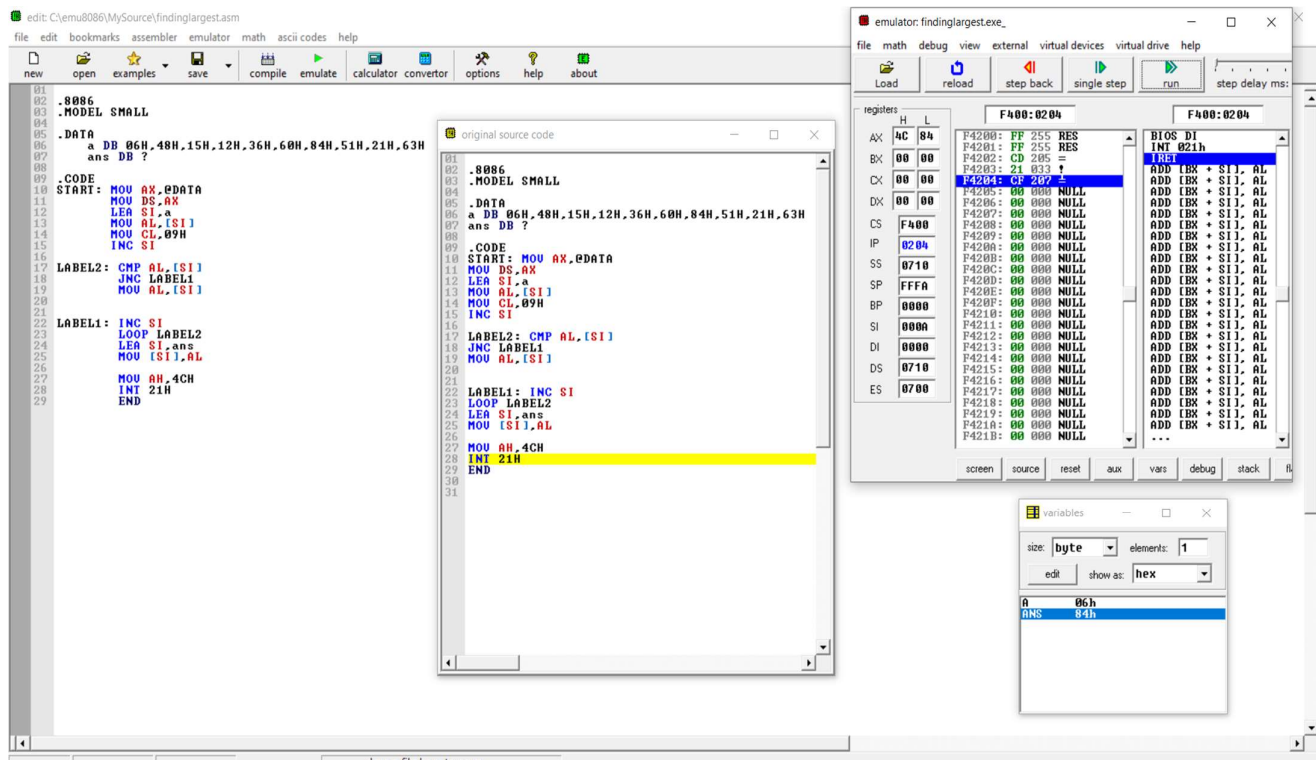
Name: Brendan Lucas, Div: SE COMP B, Roll No: 8953

# Micro Processor Practical- 2.

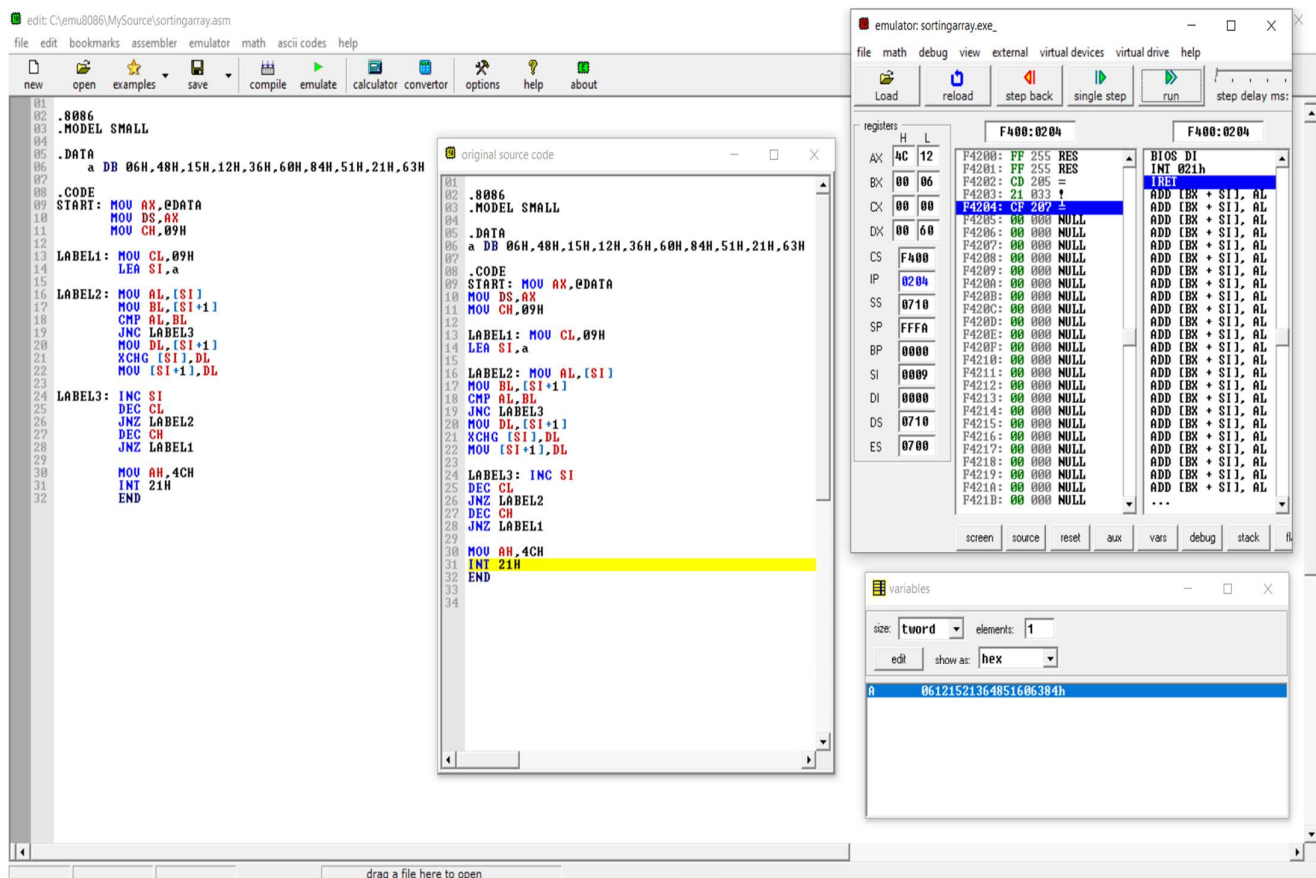
## 1. Counting Even and Odd numbers in an array:



## 2. Finding Largest number in an array of numbers:



## 3. Sorting an array of numbers in ascending order:



#### 4. Unpacking a Packed BCD number:

edit: C:\emu8086\MySource\packedtounpacked.asm

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```
01 .8086
02 .MODEL SMALL
03
04 .DATA
05     a DB 23H
06     num1 DB ?
07     num2 DB ?
08
09 .CODE
10 START: MOV AX, @DATA
11         MOV DS, AX
12         LEA SI, a
13         MOV AL, [SI]
14         MOV CL, 04H
15         AND AL, 0FH
16         MOV BL, AL
17         MOV AL, [SI]
18         SHR AL, CL
19         MOV BH, AL
20         LEA SI, num1
21         MOV AL, [SI]
22         MOV CL, 04H
23         AND AL, 0FH
24         MOV BL, AL
25         MOV AL, [SI]
26         SHR AL, CL
27         MOV BH, AL
28         INT 21H
29         END
```

original source code

registers

AX	4C 02
BX	02 03
CX	00 04
DX	00 00
IP	0204
SS	0710
SP	FFFA
BP	0000
SI	0002
DI	0000
DS	0710
ES	0700

variables

size	byte
edit	show as: hex
NUM1	23h
NUM2	03h

#### 5. Packing two Unpacked BCD numbers:

edit: C:\emu8086\MySource\unpackedtopacked.asm

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```
01 .8086
02 .MODEL SMALL
03
04 .DATA
05     num1 DB 7H
06     num2 DB 3H
07     a DB ?
08
09 .CODE
10 START: MOV AX, @DATA
11         MOV DS, AX
12         LEA SI, num1
13         MOV AL, [SI]
14         SHL AL, 04H
15         LEA SI, num2
16         MOV AL, [SI]
17         OR AL, [SI]
18         MOV BH, AL
19         MOV AL, [SI]
20         SHR AL, CL
21         MOV BH, AL
22         INT 21H
23         END
```

original source code

registers

AX	4C 73
BX	00 00
CX	00 30
DX	00 00
IP	0204
SS	0710
SP	FFFA
BP	0000
SI	0002
DI	0000
DS	0710
ES	0700

variables

size	byte
edit	show as: hex
NUM1	07h
NUM2	03h