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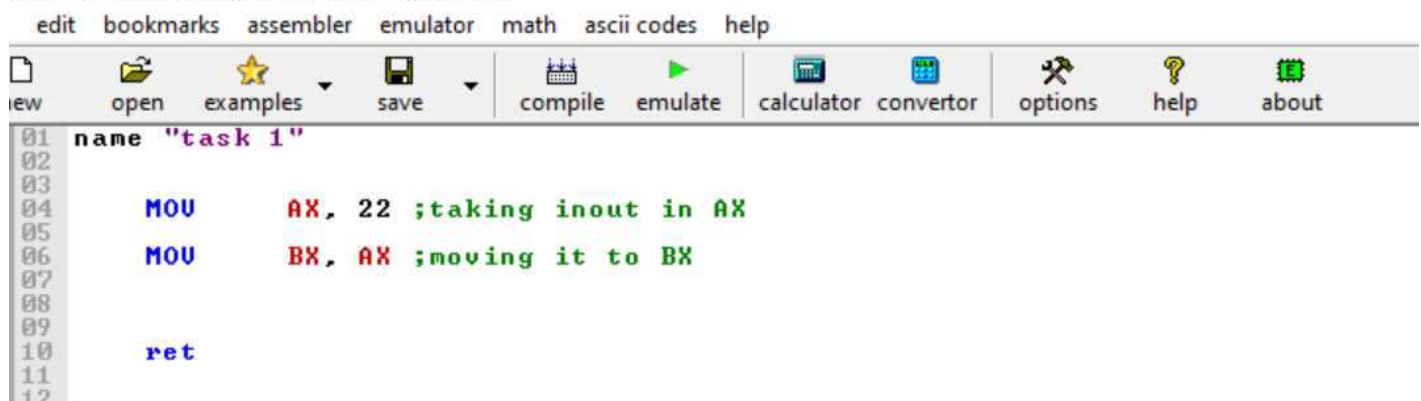
Answer

Task(1): Code

```
name "task 1"
MOV  AX, 22 ;taking inout in AX
MOV  BX, AX ;moving it to BX
ret
```

Code Screenshot:

edit: C:\Users\MY LAPPY\Desktop\2_sample.asm



Output:

file math debug view external virtual devices virtual drive help

Load reload step back single step run step delay ms: 0

registers		0100:FF00	0100:FF00
	H L		
AX	00 16	10F00: F4 244 ↑	HLT
BX	00 16	10F01: 00 000 NULL	ADD [BX + SI], AL
CX	00 00	10F02: 00 000 NULL	ADD [BX + SI], AL
DX	00 00	10F03: 00 000 NULL	ADD [BX + SI], AL
CS	0100	10F04: 00 000 NULL	ADD [BX + SI], AL
IP	FF00	10F05: 00 000 NULL	ADD [BX + SI], AL
SS	0100	10F06: 00 000 NULL	ADD [BX + SI], AL
SP	0000	10F07: 00 000 NULL	ADD [BX + SI], AL
BP	0000	10F08: 00 000 NULL	ADD [BX + SI], AL
SI	0000	10F09: 00 000 NULL	ADD [BX + SI], AL
DI	0000	10F0A: 00 000 NULL	ADD [BX + SI], AL
DS	0100	10F0B: 00 000 NULL	ADD [BX + SI], AL
ES	0100	10F0C: 00 000 NULL	ADD [BX + SI], AL
		10F0D: 00 000 NULL	ADD [BX + SI], AL
		10F0E: 00 000 NULL	ADD [BX + SI], AL
		10F0F: 00 000 NULL	ADD [BX + SI], AL
		10F10: 00 000 NULL	ADD [BX + SI], AL
		10F11: 00 000 NULL	ADD [BX + SI], AL
		10F12: 00 000 NULL	ADD [BX + SI], AL
		10F13: 00 000 NULL	ADD [BX + SI], AL
		10F14: 00 000 NULL	ADD [BX + SI], AL
		10F15: 00 000 NULL	ADD [BX + SI], AL
		10F16: 00 000 NULL	ADD [BX + SI], AL
		10F17: 00 000 NULL	ADD [BX + SI], AL
		10F18: 00 000 NULL	ADD [BX + SI], AL
		10F19: 00 000 NULL	ADD [BX + SI], AL
		10F1A: 00 000 NULL	ADD [BX + SI], AL
		10F1B: 00 000 NULL	ADD [BX + SI], AL
		10F1C: 00 000 NULL	ADD [BX + SI], AL
		10F1D: 00 000 NULL	ADD [BX + SI], AL
		10F1E: 00 000 NULL	ADD [BX + SI], AL
		10F1F: 00 000 NULL	ADD [BX + SI], AL
		10F20: 00 000 NULL	ADD [BX + SI], AL
		10F21: 00 000 NULL	ADD [BX + SI], AL
		10F22: 00 000 NULL	ADD [BX + SI], AL
		10F23: 00 000 NULL	ADD [BX + SI], AL
		10F24: 00 000 NULL	ADD [BX + SI], AL
		10F25: 00 000 NULL	ADD [BX + SI], AL
		10F26: 00 000 NULL	ADD [BX + SI], AL
		10F27: 00 000 NULL	ADD [BX + SI], AL
		10F28: 00 000 NULL	ADD [BX + SI], AL
		10F29: 00 000 NULL	ADD [BX + SI], AL
		10F2A: 00 000 NULL	...

Task(2): code

name "task 2"

MOV AX, 0x2234 ;taking input in AX register

MOV BX, 0x1242 ;taking input in BX register

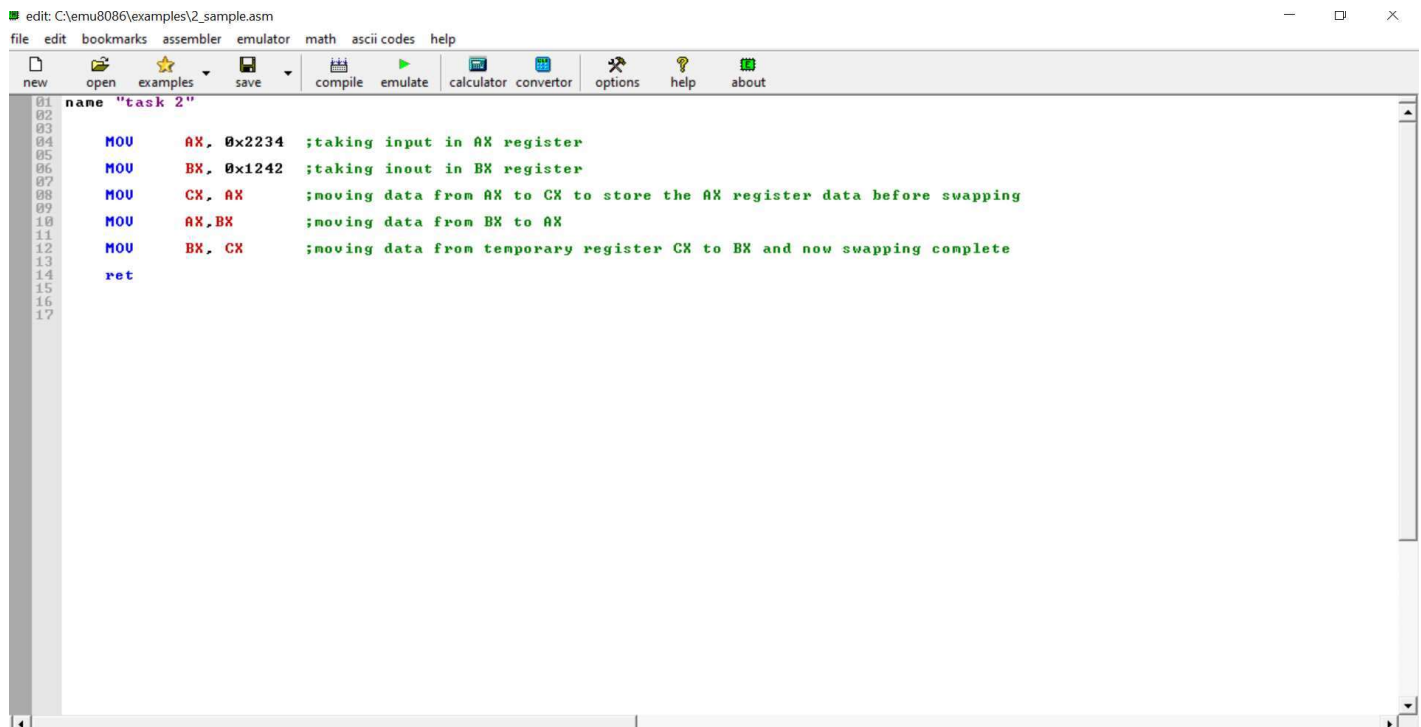
MOV CX, AX ;moving data from AX to CX to store the AX register data before swapping

MOV AX, BX ;moving data from BX to AX

MOV BX, CX ;moving data from temporary register CX to BX and now swapping complete

ret

Code screenshot:

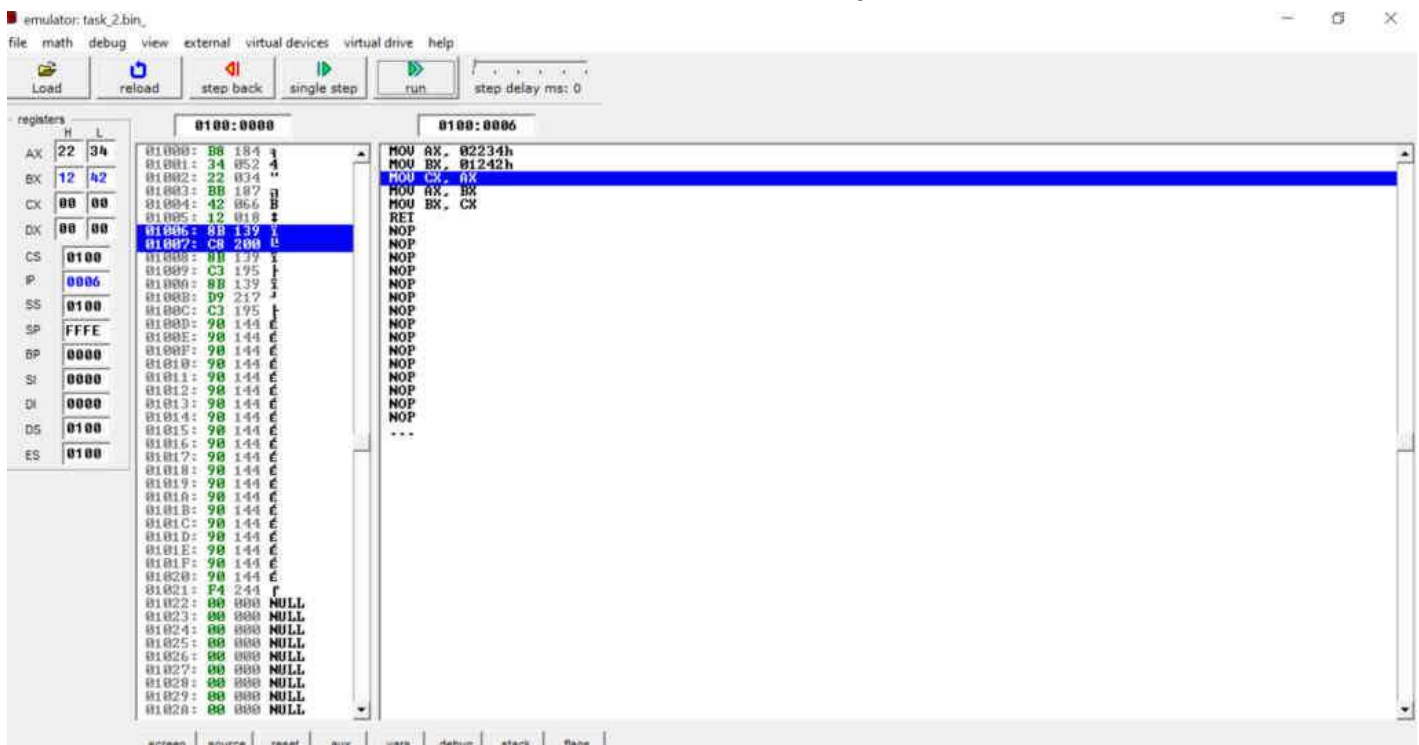


The screenshot shows a window titled "edit: C:\emu8086\examples\2_sample.asm". The menu bar includes "file", "edit", "bookmarks", "assembler", "emulator", "math", "ascii codes", and "help". The toolbar contains icons for "new", "open", "examples", "save", "compile", "emulate", "calculator", "convertor", "options", "help", and "about". The assembly code is as follows:

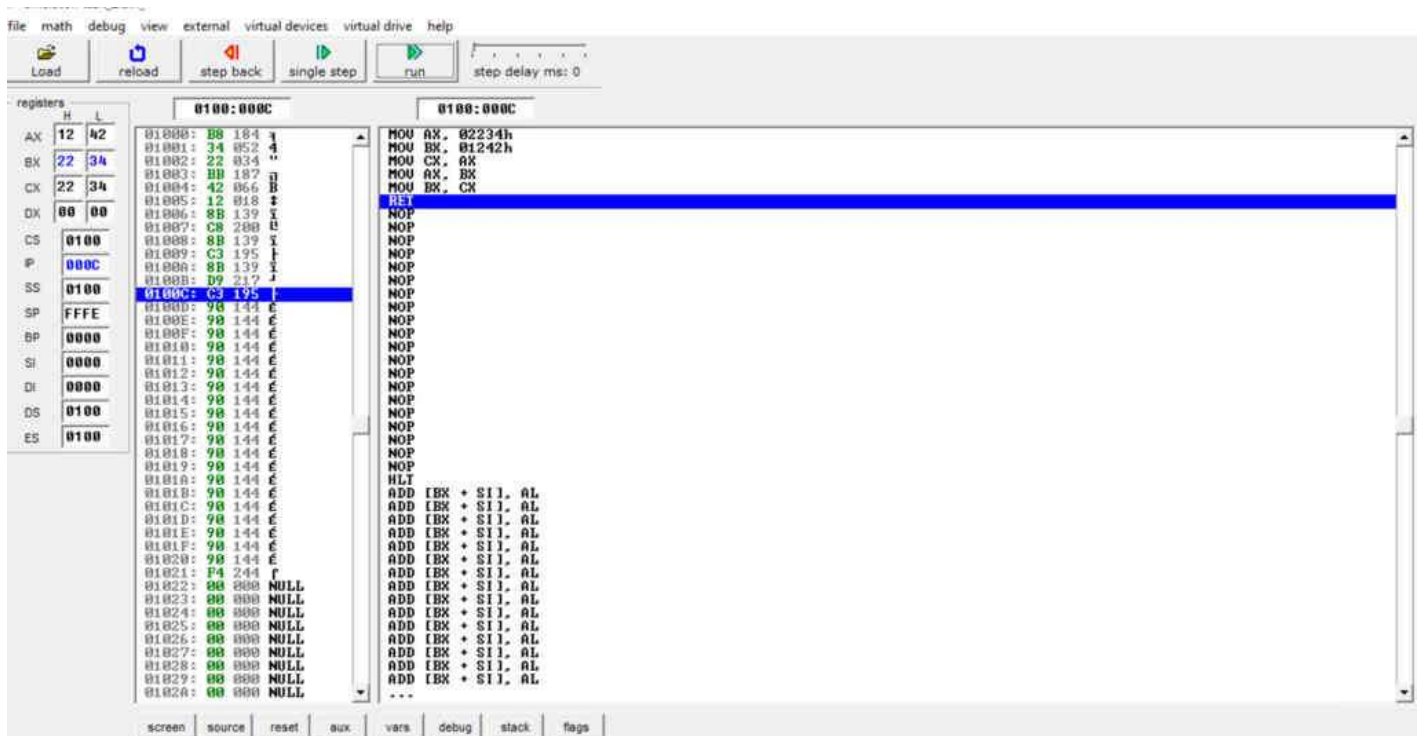
```
01  name "task 2"
02
03
04  MOV     AX, 0x2234 ;taking input in AX register
05  MOV     BX, 0x1242 ;taking input in BX register
06
07
08  MOV     CX, AX      ;moving data from AX to CX to store the AX register data before swapping
09
10  MOV     AX, BX      ;moving data from BX to AX
11
12  MOV     BX, CX      ;moving data from temporary register CX to BX and now swapping complete
13
14  ret
15
16
17
```

Output screenshot:

Before Swapping:



After swapping:



task(3): Code

name "task 3"

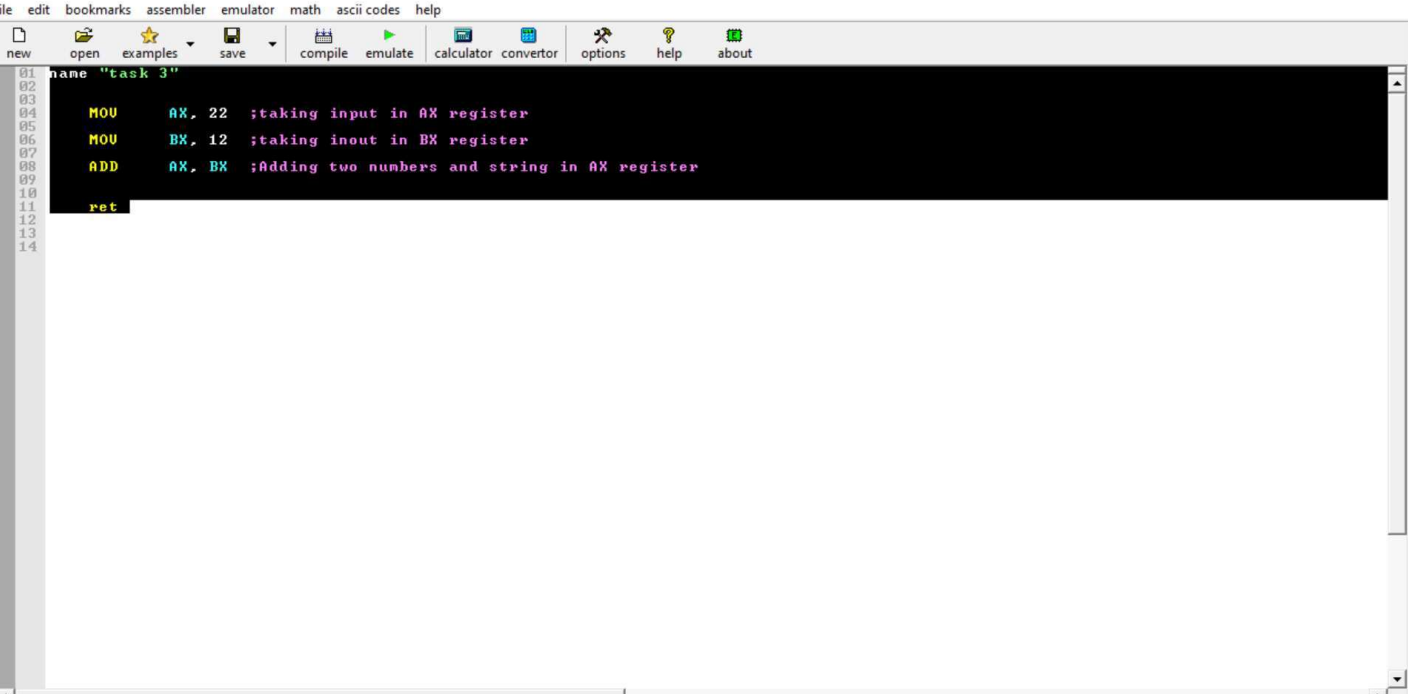
MOV AX, 22 ;taking input in AX register

MOV BX, 12 ;taking input in BX register

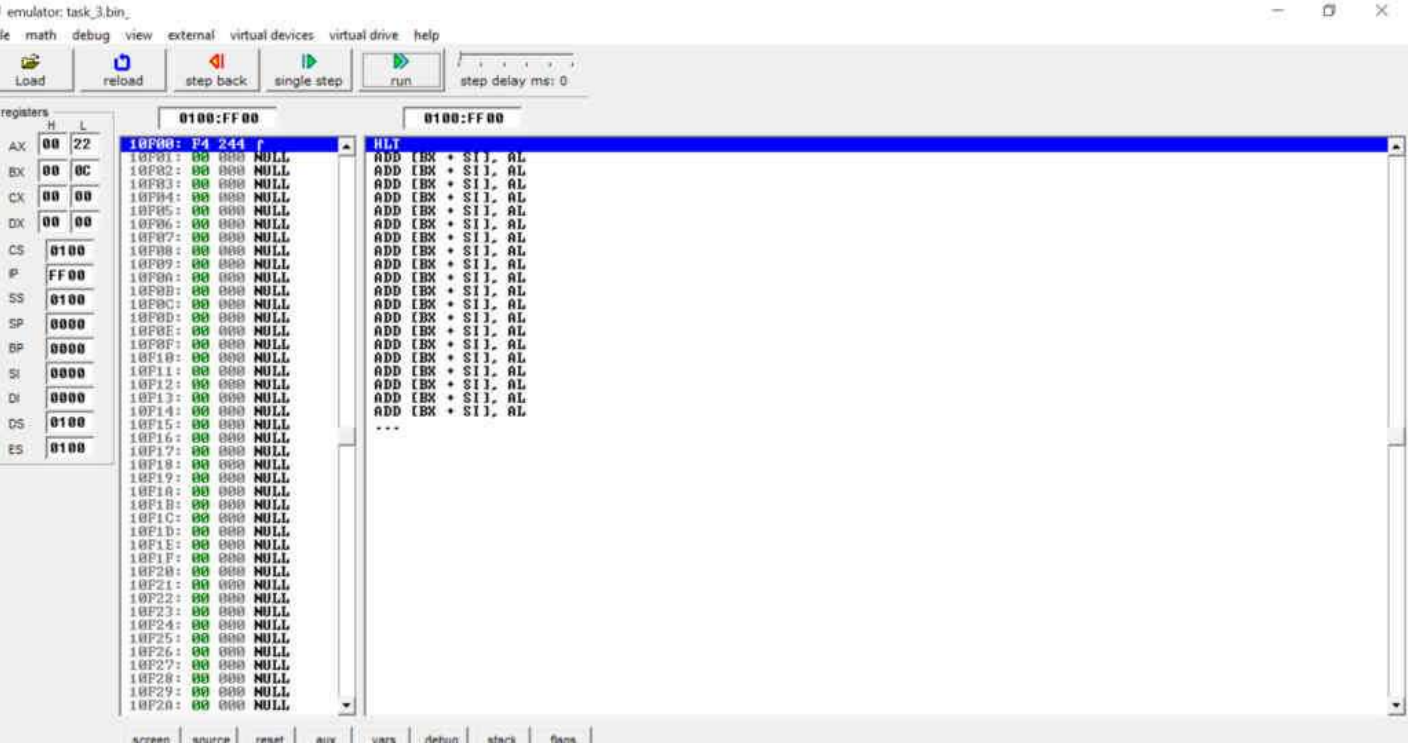
ADD AX, BX ;Adding two numbers and string in AX register

ret

Code Screenshot:



OUTPUT:



task(4): code

name "task 4"

MOV AX, 22 ;taking input in AX register

MOV BX, 12 ;taking input in BX register

SUB AX, BX ;Subtracting two numbers and string in AX register

ret

Code Screenshot:

edit: C:\Users\MY LAPPY\Desktop\2_sample.asm

```

01  name "task 4"
02
03
04      MOV     AX, 22    ;taking input in AX register
05
06      MOV     BX, 12    ;taking input in BX register
07
08      SUB     AX, BX    ;Subtracting two numbers and string in AX register
09
10
11      ret
12
13
14

```

Output Screenshot:

emulator: task_4.bin

file math debug view external virtual devices virtual drive help

Load reload step back single step run step delay ms: 0

registers	H	L
AX	00	00
BX	00	0C
CX	00	00
DX	00	00
CS	0100	
IP	0008	
SS	0100	
SP	FFFE	
BP	0000	
SI	0000	
DI	0000	
DS	0100	
ES	0100	

0100:0000 0100:0008

```

01000: 00 10 4 3 MOV AX, 00016h
01001: 16 02 2 3 MOV BX, 0000Ch
01002: 00 00 0 3 SUB AX, BX
01003: 00 10 7 3 ret
01004: 0C 01 2 3 NOP
01005: 00 00 0 3 NOP
01006: 2B 04 3 3 NOP
01007: C3 10 5 3 NOP
01008: 00 14 4 3 NOP
01009: 90 14 4 3 NOP
0100A: 90 14 4 3 NOP
0100B: 90 14 4 3 NOP
0100C: 90 14 4 3 NOP
0100D: 90 14 4 3 NOP
0100E: 90 14 4 3 NOP
0100F: 90 14 4 3 NOP
01010: 90 14 4 3 NOP
01011: 90 14 4 3 NOP
01012: 90 14 4 3 NOP
01013: 90 14 4 3 NOP
01014: 90 14 4 3 NOP
01015: 90 14 4 3 NOP
01016: 90 14 4 3 NOP
01017: 90 14 4 3 NOP
01018: 90 14 4 3 NOP
01019: 90 14 4 3 NOP
0101A: 90 14 4 3 NOP
0101B: 90 14 4 3 NOP
0101C: 90 14 4 3 NOP
0101D: F4 24 4 3 NOP
0101E: 00 00 0 3 NULL
0101F: 00 00 0 3 NULL
01020: 00 00 0 3 NULL
01021: 00 00 0 3 NULL
01022: 00 00 0 3 NULL
01023: 00 00 0 3 NULL
01024: 00 00 0 3 NULL
01025: 00 00 0 3 NULL
01026: 00 00 0 3 NULL
01027: 00 00 0 3 NULL
01028: 00 00 0 3 NULL
01029: 00 00 0 3 NULL
0102A: 00 00 0 3 NULL

```

screen source reset aux vars debug stack flags

Type here to search 26°C 9:56 PM 09-Jun-22

task(5): code

name "task 5"

MOV AX, 22

MOV BX, 12

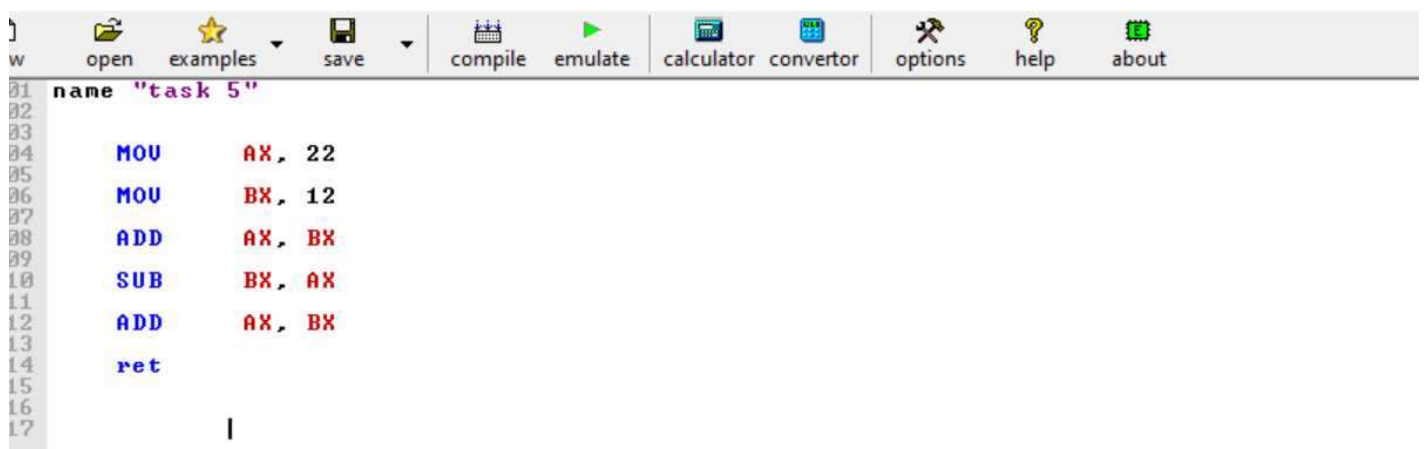
ADD AX, BX

SUB BX, AX

ADD AX, BX

ret

Code Screenshot:



Likes: 0

Dislikes: 0