TASK 1

```
.model small
.stack 100h
.data
var1 db 2
var2 db 3
.code
main proc
mov ax, @data
mov ds,ax
sub var1,48
sub var2,48
mov ch,var1
mov cl,var2
add ch, cl
add ch,48
mov dl,ch
mov ah,02h
int 21h
mov ah,4ch
int 21h
main endp
end main
```

Task2

```
.model small
.stack 100h
.data
var1 db ?
```

```asm
var2 db ?
.code
main proc
mov ax, @data
mov ds,ax
mov ah,01h
int 21h
mov var1,al
mov ah,01h
int 21h
mov var2,al
sub var1,48
sub var2,48
mov ch,var1
mov cl,var2
add ch, cl
add ch,48
mov dl,ch
mov ah,02h
int 21h
mov ah,4ch
int 21h
main endp
end main
```

```
DOSBox 0.74, Cpu speed:    3000 cycles, Frames...    —    □    X
Drive C is mounted as local directory c:\masm615\BIN\

Z:\>c:

C:\>ml task.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993.  All rights reserved.

 Assembling: task.asm

Microsoft (R) Segmented Executable Linker  Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992.  All rights reserved.

Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe
3
▶
C:\>task.exe
325
C:\>_
```

Task3

.model small

.stack 100h

.data

var1 db ?

var2 db ?

.code

main proc

mov ax, @data

mov ds,ax
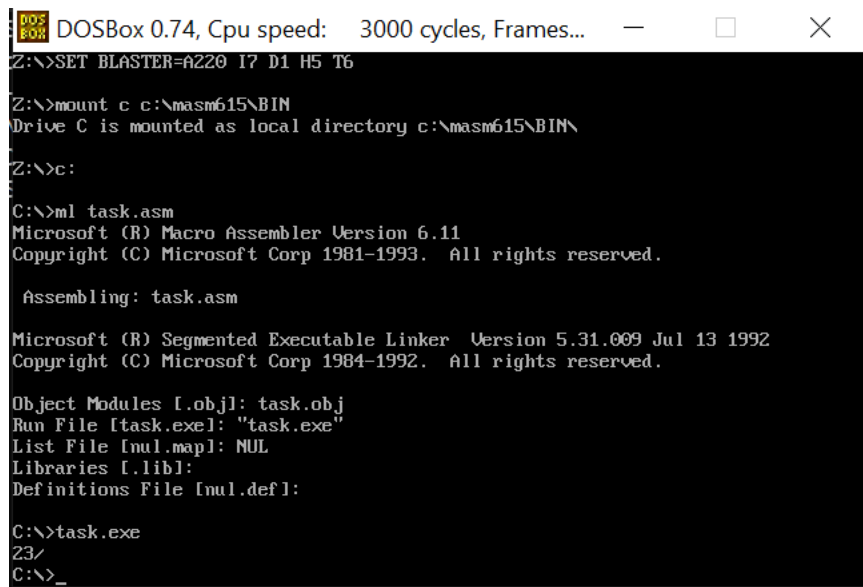
mov ah,01h

int 21h

mov var1,al

mov ah,01h

int 21h

mov var2,al

sub var1,48

sub var2,48

mov ch,var1

```asm
mov cl,var2

sub ch, cl

add ch,48

mov dl,ch

mov ah,02h

int 21h

mov ah,4ch

int 21h

main endp

end main
```


Task4

```asm
.model small

.stack 100h

.data

var1 dw 4

var2 db 2

.code

main proc

mov ax, @data
```

mov ds,ax

;sub var1,48

;sub var2,48

mov ax, var1

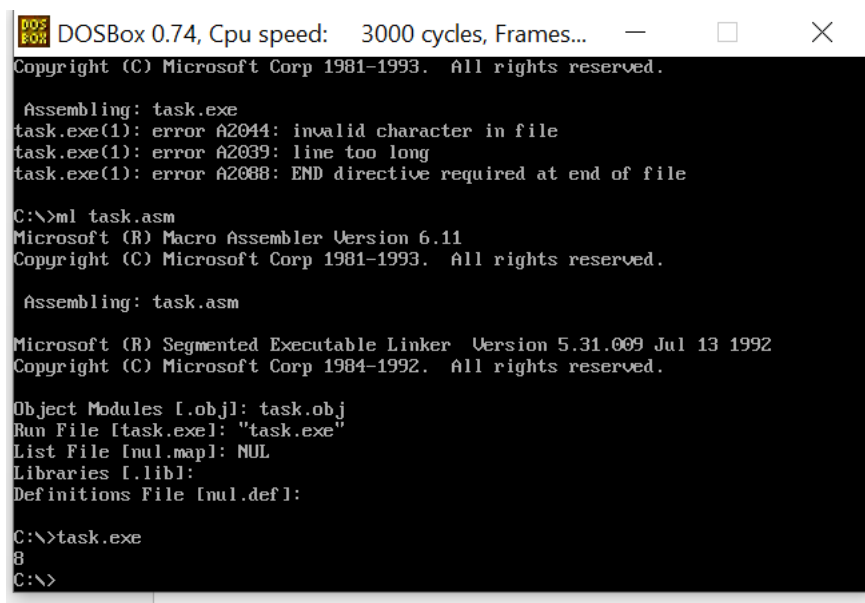mov bl, var2

mul bl

add al,48

mov dl,al

mov ah,02h

int 21h

mov ah,4ch

int 21h

main endp

end main

Task5

.model small

.stack 100h

.data

```asm
var1 dw 9

var2 db 3

.code

main proc

mov ax, @data

mov ds,ax

;sub var1,48

;sub var2,48

mov ax, var1

mov bl, var2

div bl

add al,48

mov dl,al

mov ah,02h

int 21h

add ah,48

mov ch,ah

mov dl,ch

mov ah,02h

int 21h

mov ah,4ch

int 21h

main endp

end main
```

```
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe
58
C:\>ml task.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993.  All rights reserved.

  Assembling: task.asm

Microsoft (R) Segmented Executable Linker  Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992.  All rights reserved.

Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe
32
C:\>_
```

Task6

.model small

.stack 100h

.data

var1 db ?

var2 db ?

.code

main proc

mov ah,01h

int 21h

sub al,48

mov var1,al

mov ah,01h

int 21h

sub al,48

mov var2,al

mov cl,var1

mov bh,var2

```asm
add cl,bh

mov ax,00

mov al,cl

mov ah,00

mov bl,10

div bl

mov ch,al

mov cl,ah

add ch,48

add cl,48

mov dl,ch

mov ah,02h

int 21h

mov dl,cl

mov ah,02h

int 21h

main endp

end main
```

```
Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe
32
C:\>ml task.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993.  All rights reserved.

 Assembling: task.asm

Microsoft (R) Segmented Executable Linker  Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992.  All rights reserved.

Object Modules [.obj]: task.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe
2305_
```