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,4ch int 21h

int 21h

mov ah,02h

main endp

end main

Task2

.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
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... 

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 [.objl: task.obj
Run File Itask.exe!: "task.exe"
List File Inul.mapl: NUL
Libraries [.lib]:
Definitions File Inul.def1:

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

```
mov cl,var2
sub ch, cl
add ch,48
mov dl,ch
mov ah,02h
int 21h
mov ah,4ch
```

main endp end main

int 21h

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frames... — X

Z:\>SET BLASTER=A220 I7 D1 H5 T6

Z:\>mount c c:\masm615\BIN
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.obj
Run File [task.exe]: "task.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>task.exe

Z3/
C:\>_
```

Task4

.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
```

```
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: task.exe
task.exe(1): error A2044: invalid character in file
task.exe(1): error A2039: line too long
task.exe(1): error A2088: END directive required at end of file

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
8
C:\>
```

Task5

.model small

.stack 100h

.data

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

```
DOSBox 0.74, Cpu speed: 3000 cycles, Frames...

Run File [task.exe]: "task.exe"
List File Inul.mapl: NUL
Libraries [.lib]:
Definitions File Inul.def]:

C:\>task.exe
8
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 Inul.mapl: 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

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

```
BOSBox 0.74, Cpu speed:
                                   3000 cycles, Frames...
                                                                                  X
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
```