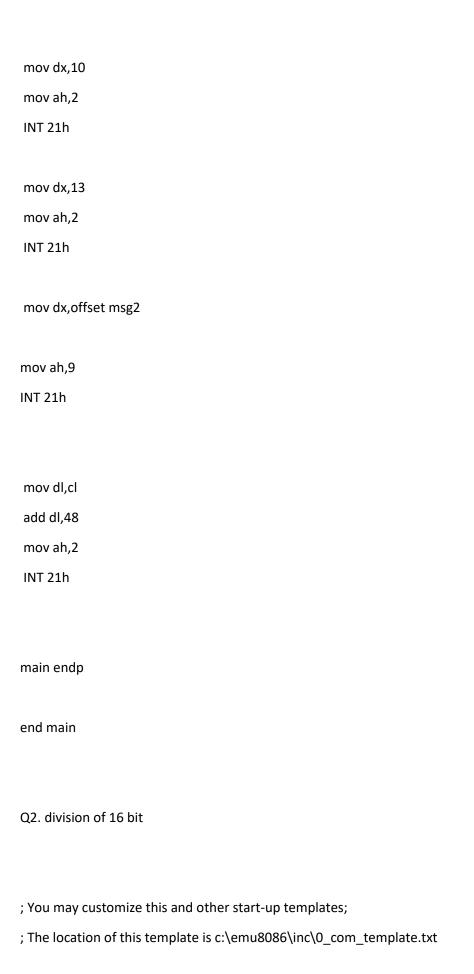
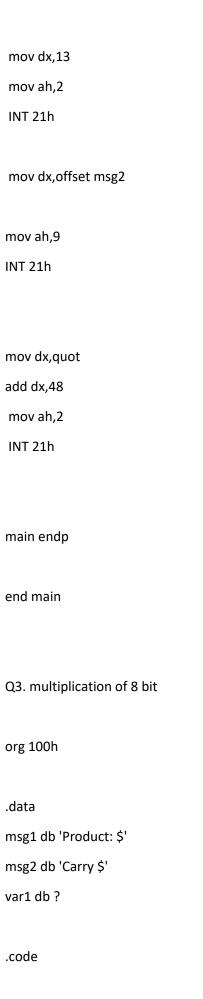
COA Assignment 8

Q1. division of 8 bit
; You may customize this and other start-up templates;
; The location of this template is c:\emu8086\inc\0_com_template.txt
org 100h
.data
msg1 db 'Quotient:\$'
msg2 db 'reminder :\$'
.code
main proc
mov ax,10
mov bl,7
div bl
mov ch,al
mov cl,ah
mov dx,offset msg2
mov ah,9
INT 21h
mov dl,ch
add dl,48
mov ah,2
INT 21h



```
org 100h
.data
msg1 db 'Quotient:$'
msg2 db 'reminder :$'
quot dw?
.code
main proc
mov ax,258
mov bx,256
div bx
mov quot,ax
mov cx,dx
mov dx,offset msg2
mov ah,9
INT 21h
mov dx,cx
add dx,48
mov ah,2
INT 21h
mov dx,10
mov ah,2
INT 21h
```



```
main proc
  mov ax,@data
  mov ds,ax
  mov al,5
  mov bl,4
  mul bl
  AAM
  mov cl,al
  mov ch,ah
  mov dx,offset msg1
  mov ah,9
  INT 21h
  mov dl,ch
  add dl,48
  mov ah,2
  INT 21h
  mov dl,cl
  add dl,48
  mov ah,2
  INT 21h
main endp
end main
```

Q4 multiplication of 16 bit

```
org 100h
.data
msg1 db 'product: $'
msg2 db 'carry: $'
.code
main proc
  mov ax,@data
  mov ds,ax
  mov ax,10
  mov bx,12
  mul bx
  mov cx,ax
  mov bx,dx
  mov dx,offset msg1
  mov ah,9
  int 21h
  mov ax,bx
  AAM
  mov dx,ax
  add dx,48
  mov ah,2
```

int 21h

mov ax,cx

AAM

mov dx,ax

add dx,48

mov ah,2

int 21h

mov dl,cf

mov ah,2

int 21h

main endp

end main