;Cau 1: Viet chuong trình hop ngu dịch duôi EXE dùng de nhap 2 so kieu BYTE, in tong và hieu cua hai so vua nhap

```
.model tiny
.stack 100h
.data
 tb1 db 'Nhap so thu nhat kieu byte: $'
 tb2 db 13,10,'Nhap so thu hai kieu byte: $'
 tb3 db 13,10,'Tong hai so = $'
 tb4 db 13,10,'Hieu hai so = $'
 so1 db 0
 so2 db 0
.code
main proc
  mov ax,@data
  mov ds,ax
  lea dx,tb1
  mov ah,9
   int 21h
  mov cl, 10
  nhap1:
   mov ah,1
   int 21h
  cmp al,13
  je ra1
  sub al,30h; doi so sang ma ascii
```

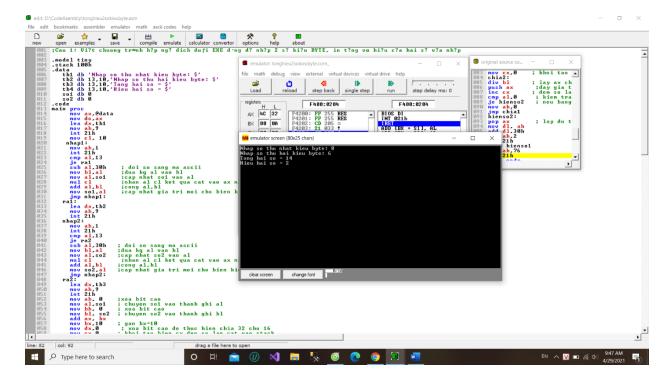
```
mov bl,al
             ;dua kq al vao bl
 mov al,so1 ;cap nhat so1 vao al
            ;nhan al cl ket qua cat vao ax nhung do so kieu byte nen ah =0
 mul cl
            ;cong al,bl
 add al,bl
              ;cap nhat gia tri moi cho bien kieu byte
 mov so1,al
 jmp nhap1:
ra1:
 lea dx,tb2
 mov ah,9
 int 21h
nhap2:
 mov ah,1
 int 21h
 cmp al,13
 je ra2
 sub al,30h; doi so sang ma ascii
 mov bl,al ;dua kq al vao bl
 mov al,so2 ;cap nhat so2 vao al
 mul cl
            ;nhan al cl ket qua cat vao ax nhung do so kieu byte nen ah =0
            ;cong al,bl
 add al,bl
 mov so2,al ;cap nhat gia tri moi cho bien kieu byte
 jmp nhap2:
ra2:
 lea dx,tb3
 mov ah,9
```

```
int 21h
 mov ah, 0 ;xoa bit cao
 mov al,so1; chuyen so1 vao thanh ghi al
 mov bh, 0; xoa bit cao
 mov bl, so2; chuyen so2 vao thanh ghi bl
 add ax, bx
 mov bx,10 ; gan bx=10
 mov dx.0 ; xoa bit cao de thuc hien chia 32 cho 16
 mov cx,0; khoi tao bien cx den so lan cat vao stack
chia1:
            ; lay dxax chia bx thuong cat ax du cat dx
 div bx
          ;thuc chat la ax chix dx=0
             ;day gia tri dx vao stack
 push dx
           ; dem so lan cat vao stack
 inc cx
            ; kiem tra thuong bang 0 hay chua
 cmp ax,0
 je hienso1; neu bang thi hien
 mov dx,0
 jmp chia1
hienso1:
            ;lay du tu stack dua vao dx
 pop dx
 add dl,30h ;doi so sang ma
 mov ah,2
 int 21h
 loop hienso1
  lea dx,tb4
```

```
mov ah,9
 int 21h
 mov al, so1
 mov bl,so2
 sub al,bl
 mov b1,10; gan bx=10
            ; xoa bit cao de thuc hien chia 32 cho 16
 mov ah,0
 mov cx,0; khoi tao bien cx den so lan cat vao stack
chia2:
 div bl
           ; lay ax chia cho bl du cat ah thuong cat al
 push ax
            ;day gia tri ax vao stack
           ; dem so lan cat vao stack
 inc cx
             ; kiem tra bang 0 hay chua
 cmp al,0
 je hienso2 ; neu bang thi hien
 mov ah,0
 jmp chia1
hienso2:
            ; lay du tu stack dua vao ax
 pop ax
 mov dl, ah
 add dl,30h
 mov ah,2
 int 21h
 loop hienso1
 mov ah,76
int 21h
```

main endp

end main



Cau 2: Viet chuong trinh hop ngu dich ra duoi EXE dung de nhap vao mot cau ket thuc bang Enter. Dem so tu trong cau và in cau vua nhap ra man hinh.

```
.model tiny
.stack 100h
.data

tb1 db 'Nhap vao mot xau: $'

tb2 db 13,10, 'Dem so ki tu vua nhap: $'

tb3 db 13,10,'in xau: $'

s db 200 dup('')

.code

main proc

mov ax,@data
```

```
;xuat xau tb1
 lea dx,tb1
 mov ah,9
 int 21h
;nhap xau
 mov ah,0ah
 lea dx,s
 int 21h
 lea dx,tb2
 mov ah,9
 int 21h
 mov ax,0 ; gan ax=0
 mov al,s+1
 mov cx,0;dem so ki tu nhap vao
 mov bx,10; gan bx=10
lap:
 mov dx,0
 div bx; lay dxax chia bx thuong cat ax du cat dx
      ;thuc chat la ax chix dx=0
 push dx ;day gia tri dx vao stack
 inc cx; dem so lan cat vao stack
 cmp ax,0;ktra bang 0
 jnz lap;nhay den lap
 mov ah,2
lap1:
```

pop dx ;lay du tu stack dua vao dx

or dl,'0'; chuyen chu sang so

int 21h

loop lap1

lea dx,tb3

mov ah,9

int 21h

mov ah,76

int 21h

main endp

end main

