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Bài 1)

.MODEL SMALL

.STACK

.DATA

tb db 10,13,"Nhap mot ky tu(S,s,C,c,T,t): $"

tb1 db 10,13,"Chao buoi sang $"

tb2 db 10,13,"Chao buoi chieu $"

tb3 db 10,13,"Chao buoi toi $"

kt1 db ?

.CODE

MOV AX, @DATA

MOV DS, AX

NHAP:

MOV AH, 9

LEA DX, tb

INT 21h

MOV AH, 1

INT 21h

CMP AL, 'S'

JE buoisang

CMP AL, 's'

JE buoisang

CMP AL, 'C'

JE buoichieu

CMP AL, 'c'

JE buoichieu

CMP AL, 'T'

JE buoitoi

CMP AL, 't'

JE buoitoi

JMP NHAP

buoisang:

LEA DX, tb1

JMP Greeting

buoichieu:

LEA DX, tb2

JMP Greeting

buoitoi:

LEA DX, tb3

Greeting:

MOV AH, 9

INT 21h

2)

.MODEL SMALL

.STACK

.DATA

TB1 DB 13,10, "Nhap mot ky tu: $"

TB2 DB 13,10, "Ky tu da nhap la chu! $"

TB3 DB 13,10, "Ky tu da nhap la so! $"

TB4 DB 13,10, "Ky tu da nhap khac chu/so! $"

.CODE

MOV AX, @DATA

MOV DS, AX

Nhapkytu:

LEA DX, TB1

MOV AH, 09H

INT 21H

MOV AH,01H

INT 21H

CMP AL,'a'

JGE Kytuchu

CMP AL,'z'

JGE Kytuchu

CMP AL,'A'

JGE Kytuchu

CMP AL,'Z'

JGE Kytuchu

CMP AL,'0'

JGE Kytuso

CMP AL,'9'

JGE Kytuso

CMP AL,'0'

JNE Kytukhac

CMP AL,'9'

JNE Kytukhac

CMP AL,'A'

JNE Kytukhac

CMP AL,'Z'

JNE Kytukhac

CMP AL,'a'

JNE Kytukhac

CMP AL,'z'

JNE Kytukhac

Kytuchu:

LEA DX, TB2

JMP Greeting

Kytuso:

LEA DX, TB3

JMP Greeting

Kytukhac:

LEA DX, TB4

JMP Greeting

Greeting:

MOV AH, 09H

INT 21H

MOV AH, 4CH

INT 21H

3)

.mode small

.stack

.data

.code

mov ah, 2

mov cx, 26

mov dl, 4ah

printLoop:

int 21h

inc dl

loop printLoop

mov ah, 4ch

int 21h

4)

.MODEL SMALL

.STACK

.DATA

TB1 DB 13,10, 'Nhap mot ky tu: $'

TB2 DB 13,10, 'Nam ky tu lien tiep: $'

.CODE

MOV AX, @DATA

MOV DS, AX

LEA DX, TB1

MOV AH, 09H

INT 21H

MOV AH, 01H

INT 21H

MOV BL, AL

INC BL

LEA DX, TB2

MOV AH, 09H

INT 21H

MOV AH, 02h

MOV CX, 5

MOV DL, BL

PrintLoop:

INT 21h

INC DL

LOOP PrintLoop

5)

.MODEL SMALL

.STACK

.DATA

TB1 DB 13,10, 'Nhap mot ky tu: $'

TB2 DB 13,10, 'Nam ky tu lien tiep: $'

.CODE

MOV AX, @DATA

MOV DS, AX

LEA DX, TB1

MOV AH, 09H

INT 21H

MOV AH, 01H

INT 21H

MOV BL, AL

DEC BL

LEA DX, TB2

MOV AH, 09H

INT 21H

MOV AH, 02h

MOV CX, 5

MOV DL, BL

PrintLoop:

INT 21h

DEC DL

LOOP PrintLoop

6)

.MODEL SMALL

.STACK

.DATA

TB1 DB 13,10,"Nhap mot ky tu: $"

TB2 DB 13,10,"Nam ky tu lien tiep dung truoc: $"

TB3 DB 13,10,"Nam ky tu lien tiep dung sau: $"

KT DB ?

KT1 DB ?

KT2 DB ?

.CODE

MOV AX,@DATA

MOV DS,AX

MOV AH,9

LEA DX,TB1

INT 21H

MOV AH,1

INT 21H

MOV KT,AL

MOV AH,9

LEA DX,TB2

INT 21H

MOV AL,KT

SUB AL,5

MOV KT1,AL

MOV AH,2

MOV CX,5

MOV DL,KT1

Loop1:

INT 21H

INC DL

LOOP Loop1

MOV AH,9

LEA DX,TB3

INT 21H

MOV AL,KT

INC AL

MOV KT2,AL

MOV AH,2

MOV CX,5

MOV DL,KT2

Loop2:

INT 21H

INC DL

LOOP Loop2

MOV AH,4CH

INT 21H

7)

.model small

.stack 100h

.data

esc EQU 1bh

prompt DB 'Nhap mot ky tu (ESC) : $'

msg1 db 10,13,'Ky tu vua nhap la chu! $'

msg2 db 10,13, 'Ky tu vua nhap la so! $'

msg3 db 10,13,'Ky tu vua nhap khac chu/so!$'

msg4 db 10,13, 'Ket thuc lap!$'

.code

mov ax, @data

mov ds, ax

nhapkt:

mov ah,9

lea dx, prompt

int 21h

mov ah,1

int 21h

cmp al, 30h

jb tbkhac

cmp al,3Ah

jb tbso

cmp al, 41h

jb tbkhac

cmp al, 5bh

jb tbchu

cmp al,61h

jb tbkhac

cmp al, 7bh

jb tbchu

tbchu:

mov ah, 9

lea dx, msg1

int 21h

mov ah, 4ch

int 21h

tbso:

mov ah, 9

lea dx, msg2

int 21h

mov ah, 4ch

int 21h

tbkhac:

mov ah, 9

lea dx, msg3

int 21h

mov ah, 4ch

int 21h

8)

.model small

.stack

.data

Tb1 DB 10,13,”hay nhap mot ky tu (a-z)$”

Tb2 DB 10,13,”chuyen sang chu hoa la: $”

Ktu DB ?

.code

Mov ax, @data

Mov ds, ax

printLoop:

Mov ah,9

Lea dx, Tb1

Int 21h

Mov ah, 8

Int 21H

CMP al, ‘a’

Jl printLoop

Cmp al,’z’

Jg printLoop

Sub al, 32

Mov Ktu,al

Mov ah,9

Lea dx, Tb2

Int 21H

Mov ah,2

Mov dl, Ktu

Int 21H

Mov ah,4ch

Int 21H

9)

.model small

.stack 100h

.data

enter EQU 13

msg1 DB 'Nhap mot so nhi phan: $'

msg2 db 10,13,'ket thuc nhap!$'

.code

mov ax, @data

mov ds, ax

xor bx, bx

mov ah,9

lea dx, msg1

int 21h

mov ah,1

n2:

int 21h

cmp al,enter

je n8

and al, 0fh

shl bx, 1

or bl, al

jmp n2

n8:

mov ah,9

lea dx, msg2

int 21h

mov ah,4Ch

int 21h

10)

.model small

.stack 100h

.data

enter EQU 13

msg1 DB 'Nhap mot so nhi phan: $'

msg2 DB 10, 13, 'So nhi phan ban vua nhap la: $'

.code

mov ax, @data

mov ds, ax

xor bx, bx

mov ah,9

lea dx, msg1

int 21h

mov ah,1

n2:

int 21h

cmp al,enter

je n8

and al, 0fh

shl bx, 1

or bl, al

jmp n2

n8:

mov cx, 16

mov ah,9

lea dx, msg2

int 21h

PrintLoop:

rol bx, 1

jc Print1

mov dl,'0'

mov ah,2

int 21h

jmp Exit1

Print1:

mov dl, '1'

mov ah,2

int 21h

Exit1:

dec cx

cmp cx,0

jne PrintLoop

mov ah,4Ch

int 21h