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II. Bài tập

1)

.MODEL SMALL

.STACK 100h

.DATA

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

TB2 DB 10,13, 'Chuoi dao nguoc: $'

.CODE

; Lay du lieu tu DATA vao DS

MOV AX, @DATA

MOV DS, AX

; Xuat thong bao nhap chuoi

MOV AH, 9

LEA DX, TB1

INT 21h

XOR CX, CX

INPUT:

MOV AH, 1

INT 21h

CMP AL, 0Dh

JE BREAK

XOR AH, AH

PUSH AX

INC CX

JMP INPUT

BREAK:

; Xuat thong bao chuoi dao nguoc

MOV AH, 9

LEA DX, TB2

INT 21h

MOV AH, 2

OUTPUT:

POP DX

INT 21h

LOOP OUTPUT

; Thoat chuong trinh

MOV AH, 4Ch

INT 21h

END

2)

.MODEL SMALL

.STACK 100h

.DATA

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

TBAO1 DB 10,13, 'Ki tu da nhap la chu!$'

TBAO2 DB 10,13, 'Ki tu da nhap la so!$'

TBAO3 DB 10,13, 'Ki tu da nhap khac chu/ so!$'

KYTU DB ?

.CODE

; Lay du lieu tu DATA vao DS

MOV AX, @DATA

MOV DS, AX

; Chay chuong trinh

CALL XULYKYTU

; Thoat chuong trinh

CALL THOAT

XULYKYTU PROC

INPUT:

MOV AH, 9

LEA DX, TB1

INT 21h

MOV AH, 1

INT 21h

CMP AL, 0Dh

JE EXIT

CMP AL, '0'

JB KHAC

CMP AL, '9'

JBE SO

CMP AL, 'A'

JB KHAC

CMP AL, 'Z'

JBE CHU

CMP AL, 'a'

JB KHAC

CMP AL, 'z'

JBE CHU

KHAC:

MOV AH, 9

LEA DX, TBAO3

INT 21h

JMP CONTINUE

CHU:

MOV AH, 9

LEA DX, TBAO1

INT 21h

JMP CONTINUE

SO:

MOV AH, 9

LEA DX, TBAO2

INT 21h

CONTINUE:

JMP INPUT

EXIT:

RET

XULYKYTU ENDP

THOAT PROC

MOV AH, 4Ch

INT 21h

RET

THOAT ENDP

END

3)

.MODEL SMALL

.STACK 100h

.DATA

TB1 DB 10,13, 'Nhap vao 1 chu thuong: $'

TB2 DB 10,13, 'Chu hoa tuong ung la: $'

.CODE

; Lay du lieu tu DATA vao DS

MOV AX, @DATA

MOV DS, AX

INPUT:

; Xuat thong bao nhap chu thuong

MOV AH, 9

LEA DX, TB1

INT 21h

MOV AH, 1

INT 21h

CMP AL, 0Dh

JE BREAK

CMP AL, 'a'

JB INPUT

CMP AL, 'z'

JA INPUT

MOV BL, AL

; Xuat thong bao ket qua

MOV AH, 9

LEA DX, TB2

INT 21h

; Xuat chu HOA tuong ung

CALL VIETHOA

JMP INPUT

BREAK:

; Thoat chuong trinh

CALL THOAT

VIETHOA PROC

MOV DL, BL

SUB DL, 20h

MOV AH, 2

INT 21h

RET

VIETHOA ENDP

THOAT PROC

MOV AH, 4Ch

INT 21h

RET

THOAT ENDP

END