PROGRAMS

1. Write an ALP to find the compare two strings

ASSUME CS:CODE, DS:DATA	-U			
DATA SEGMENT	0745:0000 B84407	MOV	AX,0744	
STR1 DB 'CSE'	0745:0003 8ED8	MOV	DS,AX	
L1 DB 03H	0745:0005 8EC0	MOV	ES,AX	
STR2 DB 'ECE'	0745:0007 BF0000	MOV	DI,0000	
L2 DB 03H	0745:000A BE0400	MOV	SI,0004	
RES DB 0H	0745:000D 8A0E0700	MOV	CL,[0007]	
DATA ENDS	0745:0011 B200	MOV	DL,00	
	0745:0013 3A0E0300	CMP	CL,[0003]	
CODE SEGMENT	0745:0017 7506	JNZ	001F	
START:	0745:0019 F3A6	REPE	CMPSB	
MOV AX,DATA	0745:001B 7502	JNZ	001F	
MOV DS,AX	0745:001D B201	MOV	DL,01	
MOV ES,AX	0745:001F 88160800	MOV	[00081,DL	
LEA DI,STR1	II-u			
LEA SI,STR2	0745:0023 CC	INT	3	
MOV CL,L2	"		Ü	
MOV DL, 0H	Res	sult		
CMP CL,L1	Registers			
JNZ EXIT	AX=0744 BX=0000 CX=000	าว ทระคคคิด		
REP CMPSB	In our by occording	AL DA 0000		
JNZ EXIT				
MOV DL,01H	Data Segment			
EXIT:	-D DS:0 0744:0000			
MOV RES,DL	Extra Segment			
	-D ES:0			
INT 03H	0744:0000 43 53 45 03 45 43 45 03	3-00 00 00 00 00	00 00 00 CSE.ECE	
CODE ENDS				
END START				

2. Write an ALP to find the Length of a given string

ASSUME CS:CODE, DS:DATA DATA SEGMENT STR1 DB 'CSEBATCH',0 LEN DW 0H DATA ENDS CODE SEGMENT START: MOV AX,DATA MOV DS,AX MOV ES,AX, MOV AX,0H LEA DI,STR1 REPNE SCASB DEC DI	Data Segment	MOV MOV MOV MOV REPNE DEC MOV INT	AX,0744 DS,AX ES,AX AX,0000 DI,0000 SCASB DI [0009],DI 3
MOV LEN,DI INT 03H CODE ENDS	0744:0000 43 53 45 42 41 54 43 48 Extra Segment -D ES:0 0744:0000 43 53 45 42 41 54 43 48		•

3. Write an ALP to find whether the given byte is in the string or not

ASSUME CS:CODE, DS:DATA	-U		
	0745:0000 B84407	MOV	AX,0744
DATA SEGMENT	0745:0003 8ED8	MOV	DS,AX
STR1 DB 'CSE'	0745:0005 8EC0	MOV	ES,AX
L1 DB 03H	0745:0007 B200	MOV	DL,00
STR2 DB 'E'	0745:0009 BF0000	MOV	DI,0000
RES DB 0H	0745:000C A00400	MOV	AL,[0004]
DATA ENDS	0745:000F 8A0E0300	MOV	CL,[0003]
	0745:0013 FC	CLD	
CODE SEGMENT	0745:0014 FZAE	REPNE	SCASB
START:	0745:0016 7502	JNZ	001A
STAKT.	0745:0018 B201	MOV	DL,01
MOV AX, DATA	0745:001A 88160500	MOV	[0005],DL
MOV AX, DATA MOV DS, AX	0745:001E CC	INT	3
MOV BS, AX MOV ES,AX	Result		
MOV DL,0H			
MOY DL,UN	Registers		
'			
I E A DI CTD1	AX=0745 BX=0000 CX=0000 D	X=0001	
LEA DI,STR1	AX=0745 BX=0000 CX=0000 D	X=0001	
MOV AL,STR2	AX=0745 BX=0000 CX=0000 D3 Data Segment	X=0001	
MOV AL,STR2 MOV CL,L1	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0		00 00 00 00 CSE.E.
MOV AL,STR2 MOV CL,L1 CLD	AX=0745 BX=0000 CX=0000 D3 Data Segment		90 90 90 OSE.E.
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00		90 00 00 00 CSE.E.
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0		90 90 90 OSE.E.
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment		90 90 90 CSE.E.
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT:	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT:	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT: MOV RES,DL	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT: MOV RES,DL	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT: MOV RES,DL INT 03H CODE ENDS	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	
MOV AL,STR2 MOV CL,L1 CLD REPNE SCASB JNZ EXIT MOV DL,01H EXIT: MOV RES,DL	AX=0745 BX=0000 CX=0000 DX Data Segment -D DS:0 0744:0000 43 53 45 03 45 01 00 00-00 Extra Segment -D ES:0	9 99 99 99 t	