

Homework-1

Assignment Date : 12.10.2017
Due Date : 02.11.2017 at 18:00

Using the Educational CPU Simulator software (MİKBİL), write an Assembly program to do following tasks.

DATA PART

- Define two arrays named LISTE1 and LISTE2, whose elements are 1 byte ASCII letters.
- Define two variables named SIZE1 and SIZE2 that represent the number of items in each array.
- Define the LISTE3 array.
- Initialize the LISTE1 and LISTE2 arrays with the ASCII letters given below.

LISTE1 LETTERS	HEXADECIMAL VALUE
A	41
B	42
C	43
D	44
E	45
F	46
G	47
H	48

LISTE2 LETTERS	HEXADECIMAL VALUE
E	45
F	46
L	4C
T	54
V	56

PROGRAM PART

- Loop thru LISTE1 and LISTE2, and build LISTE3.
- LISTE3 should contain only **the exclusive elements of LISTE1**.
- Exclusive means an element (letter) exists only in LISTE1, but does not exist in LISTE2.
- Example result: LISTE3 will contain only the exclusive elements of LISTE1.

LISTE3 LETTERS	HEXADECIMAL VALUE
A	41
B	42
C	43
D	44
G	47
H	48

EXAMPLE ARRAYS IN MİKBİL MEMORY

The followings are the LISTE1, LISTE2, and LISTE3 in memory after running the program.

LISTE1 →

Bellek:		
Adress	Content	ASCII
0000	41	A
0001	42	B
0002	43	C
0003	44	D
0004	45	E
0005	46	F
0006	47	G
0007	48	H
0008	45	E
0009	46	F
000A	4C	L
000B	54	T
000C	56	V

LISTE2 →

LISTE3 (contains exclusive elements of LISTE1)

Bellek:		
Adress	Content	ASCII
000D	41	A
000E	42	B
000F	43	C
0010	44	D
0011	47	G
0012	48	H
0013	00	