

Course's Number : 12140415

Exam's Period: One Hour

Questions' Number : 3 Questions

Total Mark : 30

Pages' Number : 03



Midterm Exam  
Second Semester 2020-2021

Student's Name: \_\_\_\_\_

Student's Number: \_\_\_\_\_

Section's Number: 3

Exam's Date : 05/04/2021

### Exam Instruction:

For every question, upload the .asm file only.

#### Question 01:

(10 Points)

Write an assembly program that allows the user the user to enter 3 numbers **at most** such that:

- If the summation of these numbers **is equal to ten or more** then print 'There is a problem!'
- If the summation of these numbers **is less than 10** then print the summation

Ex:

Scr emulator screen (80x25 chars)

```
Enter the numbers: 234
The sum is: 9
```

Scr emulator screen (80x25 chars)

```
Enter the numbers: 67
There is a problem!
```

Scr emulator screen (80x25 chars)

```
Enter the numbers: 368
There is a problem!
```

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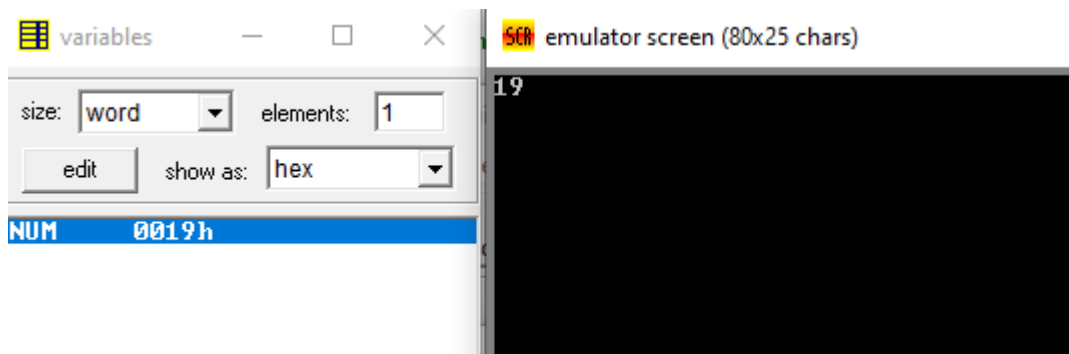
Exam's Date : 05/04/2021

Question 02:

(10 Points)

A) Write an assembly program to print a number of 2 digits (5Marks)

**Note: Define the number as a variable**



b) Write an assembly program that allow the user to enter a letter (in lower case) and find the number of repetition of this letter in a string (5Marks)

**Note: Define the string as a variable (lower case)**

Ex: the string is assembly language

emulator screen (80x25 chars)

```
assembly language
Enter the character: a
the count of this letter is: 3
```

emulator screen (80x25 chars)

```
assembly language
Enter the character: d
the count of this letter is: 0
```

Course's Name: Assembly and  
microprocessor language Lab

Palestine Technical University -Kadoorie

Instructor's Name: Eng.Maha  
Takrore

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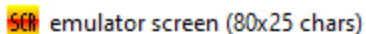
Question 03:

(10 Points)

Write an assembly program to convert each letter in a string from upper case to lower case and convert each letter in lower case to upper case

**Note: Define the string as a variable**

**str db 'HuThAiFa\$'**

 emulator screen (80x25 chars)

hUtHaIfA

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