Lab Report

<u>Lab – 02</u>

Course No: 3110

Course Name: Sessional Based on 3109 (Microprocessors and Assembly

Language)

Submitted To:

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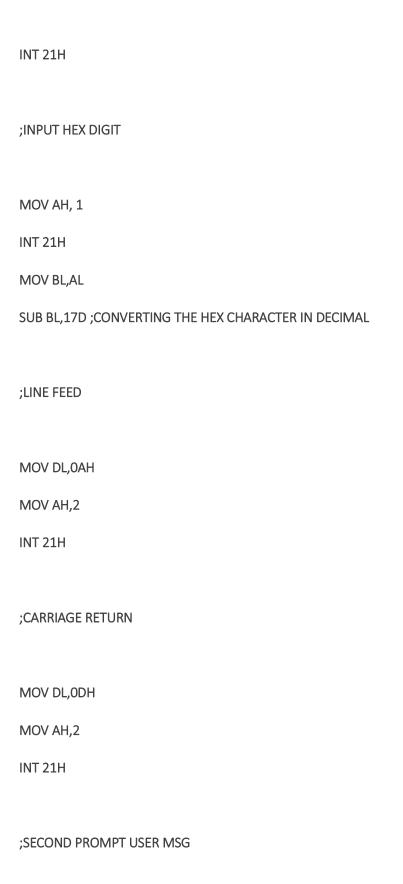
Experiment No: 02

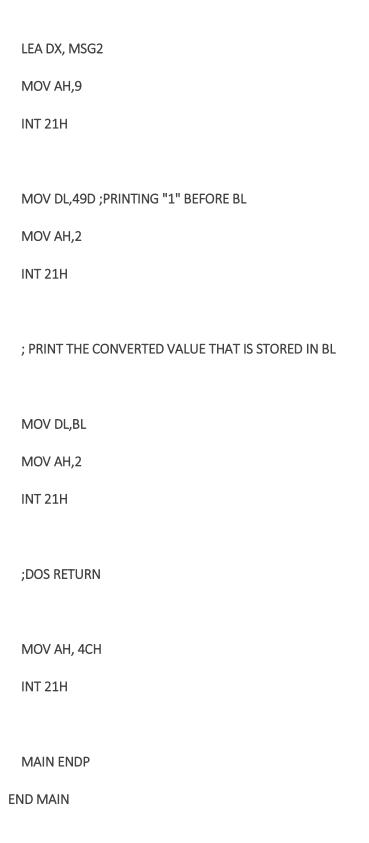
Experiment Name: Write an assembly language program to read one of the HEX digits (A-F) and display it on next line in decimal.

Code:

MOV AH,9

```
.MODEL SMALL
.STACK 100H
.DATA
MSG1 DB OAH, ODH, 'Enter a hex digit: $'
MSG2 DB OAH, ODH, 'In decimal it is: $'
.CODE
MAIN PROC
  ;INITIALIZING PROMPT USER
  MOV AX, @DATA
  MOV DS, AX
  ; FIRST PROMPT USER MSG
  LEA DX, MSG1
```





Output:

```
Enter a hex digit: E
In decimal it is: 14
```

Discussions:

In this specified problem the HEX digit was converted in the corresponding number according to the ASCI code interpretation. And the initial digit was set before displaying the corresponding converted HEX digit.