


## National University of Computer and Emerging Sciences, Lahore Campus

	<b>Course Name:</b>	<b>Computer Organization and Assembly Language</b>	<b>Course Code:</b>	<b>EL203</b>
	<b>Program:</b>	<b>BS(CS)</b>	<b>Semester:</b>	<b>Fall 2018</b>
	<b>Duration:</b>	<b>30 Minutes</b>	<b>Total Marks:</b>	<b>10</b>
	<b>Date:</b>	<b>December 04,2018</b>	<b>Weight</b>	
	<b>Section:</b>	<b>F</b>	<b>Page(s):</b>	<b>1</b>
	<b>Exam Type:</b>	<b>Quiz-3</b>		

**Student Name:** \_\_\_\_\_ **Roll No :** \_\_\_\_\_

Write a TSR which starts its execution when ENTER is pressed. Then it listens to keyboard. You have to take input through only Hardware Interrupt. You have to take input a number in base Ten (Decimal). That number N can be from 0 to 65535, which can be stored in DW (So you need to store the whole number in a DW). You have to stop listening the input of that number when ENTER is pressed. Finally you have to print that number and tell whether that number is Palindrome or not? You can assume that input will never be in any other base.

HEX scan code of 1 (one) is 02 and so on, HEX scan code of 9 (nine) is 0A and the HEX scan code of 0 (zero) is 0B. You have to print the messages given below in I/O.

Sample I/O # 1:

Input a number: 11411

The number you entered is: 11411

Yes, this number is palindrome.

Sample I/O # 2:

Input a number: 2004

The number you entered is: 2004

No, this number is not palindrome.