

COE 205, Term 033

Computer Organization & Assembly Language Programming

Programming Assignment# 2

Due date: Sunday, July 25, 2004

- Q.1.** It is required to write an assembly program that does the following:
- (i) Ask the user to enter the format of the input, which can be decimal, hexadecimal, or binary.
 - (ii) Read the entered number. Assume that there is no predetermined size for the number. When the user hits return this will be the end of the inserted number.
 - (iii) Ask the user to enter the format of the output, which can be decimal, hexadecimal, or binary.
 - (iv) Print the entered number in the required format. Only the significant digits have to be printed.

Assume that the number is unsigned. A sample execution of the program is shown below:

Enter the format of the input number (DHB): d
Enter the number: 20
Enter the format of the output number (DHB): b
The entered number in binary is: 10100

Enter the format of the input number (DHB): h
Enter the number: 5A
Enter the format of the output number (DHB): b
The entered number in binary is: 1011010

Enter the format of the input number (DHB): b
Enter the number: 11011
Enter the format of the output number (DHB): d
The entered number in decimal is: 27

Include both hard and soft copy of your solution. The hard copy should be well organized. Make sure that your program is well documented. The soft copy should be supplied in a floppy disk along with a Readme file describing its content.

Both the hard and soft copy should be submitted in an envelope that has your name and ID.