Problem Set

1. Write an assembly language program to find factorial of number.
2. Write a program to display string “Computer Science and Engineering”.
3. Write a program to reverse the given string for 8086.
4. Write a program to multiply 2 numbers (16-bit data) for 8086.
5. Sum of series of 10 numbers and store result in memory location named Total.
6. Write a program to find largest number in a block of data. The length of the block is 0A. Store the maximum in location Result.
7. Find number of times letter ‘**e**’ exist in the string ‘**exercise**’, Store the count at memory Answer.
8. Write a program in 8086 microprocessor to sort numbers in ascending order in an array of n numbers, where size “n” is stored at memory address 2000 : 500 and the numbers are stored from memory address 2000 : 501.
9. Write an assembly language program to count number of vowels in a given string.
10. Write an 8086 ALP which will input the user name from the keyboard. If the user is ‘student’ it will output “The username is valid” else it will output “Invalid user name”.