


Department of Computer Science and Engineering, SDMCET, Dharwad – 580002  
Programming Computer Peripherals and Interfacing Laboratory

(22UCSL404)

**List of Programs**

1. Write an assembly language program to find factorial of a given number.
2. Write an assembly language program to find number of ones and zeros in a given 32-bit number.
3. Write an assembly language program to count number of even and odd numbers in a given list of 32-bit numbers. Assume array of 5 numbers.
4. Write an assembly language program to count number of positive and negative numbers in a list of 32-bit numbers. Assume array of 7 numbers.
5. Write an assembly language program to find sum of n 32-bit numbers.
6. Write an assembly language program to find sum of first n natural numbers. Assume  $n=8$ .
7. Write an assembly language program to add two 32-bit numbers.
8. Write an assembly language program to transfer a block of data from code area to data area. Assume input block size as 10.
9. Write an assembly language program to find whether the given 32-bit number is even and odd number.
10. Write an assembly language program to find whether the given 32-bit number is positive and negative number.
11. Write an assembly language program to add two 128-bit numbers.
12. Write an assembly language program to subtract two 64-bit numbers.
13. Write an assembly language program to subtract two 32-bit numbers.
14. Write an assembly language program to display in memory location [0x9000] the multiplication of 3. Display in memory location  $3 \times n$ , where n will be specified by examiner.
15. Write an assembly language program to arrange given 32-bit numbers in ascending order.
16. Write an assembly language program to find the length of a string.
17. Write an assembly language program to find the frequency of a specified character in a given string.
18. Write an assembly language program to search for an element in a list of n 32-bit numbers.

  
(Nita G K)