Department of Computer Science & Engineering
Microprocessor & Computer Architecture

UNIT 1 Assignment Part 2

Unit-1: Introduction to Microprocessor & ISA

1. Write the assembly equivalent code for the following code:
   if (A==B) :A=B+10 ELSE:A=A-10. Where A, B are memory locations having some integer values.
2. Write assembly language program to find the sum of 'N' integers which are stored in memory locations and store the sum in the 'n+1' memory location.
3. Write assembly language program to find the factorial of an integer stored in some memory location and display the factorial on the standard output.
4. Encode the following instructions :
   a. MOV R0,R2,LSL #2
   b. ADD R1,R2,R3,ASR R4
5. Encode the following instructions:
   a. LDR R0,[R1],#4
   b. STR R0,[R1,#4]!