ASSIGNMENT 1

1. Write an assembly language (ALP) program to count the positive and negative numbers from the series of 100 numbers present in the memory location from 2000:0100H. Store the positive count in register BX and negative count in register DX

2. Write an ALP to count the even and odd numbers from the series of 100 numbers present in the memory location from 2000:0100H. Store the even count in register BX and odd count in register DX

3. Write an ALP to solve the arithmetic equation (P*Q) +(R*S). Store the result in the memory location ES: DI, where P, Q, R and S are 16- bit unsigned numbers.

4. Write an ALP to find the smallest byte from 10 bytes present in the memory location from 29237H. Store the result at the end.

5. Write an ALP to compare two signed strings of BLOCK 1 and BLOCK 2 . Each string consists of 10 words.

6. Write an ALP to add two 8 -digit ASCII digit strings present in the memory location from DS:SI to DS:DI. Store the result in memory location DS:BX

7. A block of 50 words is present in the memory location from address 5000:1500H. Write an ALP program to arrange this block in reverse order from 5000:4500H

8. Write an ALP to find the largest word from the 100 words present in the memory from address 76000H and store the result in register BX

9. Write an ALP in the 8086 to convert the 8-bit BCD number available in the memory location 2000:0100 into the hexadecimal. Store the result in the next memory location.

10. Write an ALP to store 128 bytes from memory location 4000:3000H in the form of 00,11,22,33,……EE,FF,00,11,22,33…..EE,FF,00,11,22,33…..EE,FF.