**Assignments**

1. Write a program that prompts the user to enter a letter and displays the letter in opposite case.
2. Write a program in assembly language that prompts the user to enter a character and displays its ASCII code in binary and hexadecimal and the number of 0’s in the code.
3. Write a program that prompts the user to enter a character and displays its ASCII code in hexadecimal.
4. Write a program to read two decimal digits whose sum is not greater than 9 and displays their sum.
5. Write a program that prompts the user to enter two binary numbers and prints their sum.
6. Write a program to add two hexadecimal numbers.
7. Write a program that prompts the user to enter a line of 25 characters and prints the last 10 characters in reverse order.
8. Write a program to count the number of vowels and consonants in a string.
9. Write a program to read a string and copy it into another string in reverse order.
10. Write a program to sort an array of N elements.
11. Write a program to search an element in an array.