Microprocessor and **Assembly Language Lab**

1. Write a assembly language program to convert uppercase letters to lowercase.
2. Write a assembly language program to convert lowercase letters to uppercase.
3. Write a assembly language program that will take user input and print single character.
4. Write and run a assembly language program that will print a user input message.
5. Write a program that will perform addition and subtraction of two 8-bit numbers.
6. Write a assembly language program to check whether a number is even or odd.
7. Write a assembly language program that will arrange inputed characters alphabetically.
8. Write a assembly language program that will calculate average of two numbers.
9. Program to check whether a number is prime or composite.
10. Sort a list of numbers in ascending and descending order.
11. String operations: reverse a string, compare two strings, find string length.
12. Program to find the square and cube of a inputed number.
13. Program to calculate factorial of a inputed number.
14. Program to count the number of vowels/consonants in a string.
15. Write and run a program that will print a message.
16. Write and run a program that will calculate and print Fibonacci series.
17. Program to calculate 8 bit multiplication and division.