* Write an assembly language program to add 10 numbers from memory.
* Draw flow chart for multiplication of two floating point numbers.
* Passes of an assembler.
* Draw a flowchart for first pass of an assembler and explain the same in brief.
* Write the program to multiply two positive numbers by a repeated addition method. For ex., to multiply 5 x 4 , the program evaluates the product by adding 5 four times, or 5+5+5+5.
* Write the program to logically OR the two numbers without using “OR” instruction.
* Show the contents of the registers E, A, Q, SC during the process of multiplication of two binary numbers 11111(multiplicand) 10101 (multiplier). The signs are not included.
* Explain the first pass of an assembler with a flowchart
* What is Assembly Language? Why do we need it? What is the function of Assembler? What is Address symbol table? Describe in brief.
* Why do we need First Pass and Second Pass in the process of Assembly? Describe in brief what is done under each pass.
* Write a program loop using a pointer and a counter to clear the contents of hex locations 500 to 5FF with 0.
* Describe the first pass of assembler with the help of flowchart and show how symbol table is generated using an example.
* Write an assembly level program for the following pseudo code.

SUM = 0

SUM = SUM + A + B

DIF = DIF – C

SUM = SUM + DIF

* List the assembly language program (of the equivalent binary instructions) generated by a compiler for the following IF statement:

IF (A-B) 10, 20, 30

The program branches to statement 10 if A-B<0; to statement 20 if A-B=0; and to statement 30 if A-B>0.

* Explain the second pass of an assembler with the help of flowchart.
* Write a program to perform the following operation. **(05)**

**X** ⊕ **Y = X’Y + XY’**

* Write an assembly language program to add 10 numbers from memory.