Algorithm and Flowchart Questions

- **Prob. 1.** Write an algorithm and draw a flowchart to print the square of all numbers from LOW to HIGH. Test with LOW=1 and HIGH=10.
- **Prob. 2.** Write an algorithm and draw a flowchart to print the SUM of numbers from LOW to HIGH. Test with LOW=3 and HIGH=9.
- **Prob. 3.** Write an algorithm and draw a flowchart to print all numbers between LOW and HIGH that are divisible by NUMBER.
- **Prob. 4.** Write an algorithm and draw a flowchart to find out the maximum number between three numbers
- **Prob. 5.** Write an algorithm and draw a flowchart to print all the prime numbers between LOW and HIGH. Test with LOW=1 and HIGH=100.
- **Prob. 6.** Write an algorithm and draw a flowchart to count and print all numbers from LOW to HIGH by steps of STEP. Test with LOW=0 and HIGH=100.
- **Prob. 7.** Write an algorithm and draw a flowchart to count and print all numbers from HIGH to LOW by steps of STEP. Test with HIGH=100 and LOW=0.
- **Prob. 9.** Write an algorithm and draw a flowchart to print the complete multiplication table for 1's. through 12's.

  ---- $1 \times 1 = 1, 1 \times 2 = 2, \ldots 1 \times 12 = 12$

  ---- $2 \times 1 = 2, 2 \times 2 = 4, \ldots 2 \times 12 = 24$

  … …

  ---- $12 \times 1 = 12, 12 \times 2 = 24, \ldots 12 \times 12 = 144$
- **Prob. 10.** Write an algorithm and draw a flowchart to arrange N values read from the input in ascending order.
- **Prob. 11.** Write an algorithm and draw a flowchart that will find and print the product of 3 numbers.
- **Prob. 12.** Write an algorithm and draw a flowchart that will find and print The factorial of NUMBER is FACTORIAL. Test the flowchart for NUMBER=5.
- **Prob. 13.** Write an algorithm and draw a flowchart that will find and print the number of vowels in a given set of characters and print there number of occurrences.

- **Prob. 14.** Write an Algorithm and draw flowchart to find out the solution of quadratic equation.
- **Prob. 15.** Advantages and Disadvantages of Flowchart and Pseudo Code