**Assignment**

1. Draw a flowchart and write an algorithm to find the sum of first 100 natural numbers.
2. Draw a flowchart and write an algorithm to find the largest of three numbers x, y and z.
3. Draw flowchart and write an algorithm for the problem of determining prime number?
4. Draw a flowchart and write an algorithm which generates first 50 items of the Fibonacci series: 1, 1, 2, 3, 5, 8,
5. Design an algorithm to convert a decimal number, n, to binary format
6. Write an algorithm and draw a flowchart that will calculate the roots of a quadratic equation Hint: d = sqrt ( ), and the roots are: x1 = (–b + d)/2a and x2 = (–b – d)/2a)
7. Write an algorithm that reads three numbers and prints the value of the largest   
   number.
8. The program is to input an examination mark and test it for the award of a   
   grade. The mark is a whole number between 1 and 100. Grades are awarded according to the following criteria:   
    >= 80 Distinction   
    >= 60 Merit   
    >= 40 Pass   
    < 40 fail
9. Write a program to calculate the sum and average of a series of numbers.
10. Write an algorithm to read 100 numbers then display the largest.