

ASSIGNMENT_1

Jadavpur University

Session 2019-20, Even Semester

Computer Programming and Numerical Methods

Sessional Assignments (Combined)

Flow Chart and Algorithms

1. Write an algorithm to determine maximum of three numbers. Also draw the corresponding flow chart.
2. Write an algorithm to determine the sum of individual digits of a given integer. Also draw the corresponding flow chart.
3. Write an algorithm to print the reverse of a number read as input. Also draw the corresponding flow chart. **[OPTIONAL]**
4. Write an algorithm to determine whether a given number is prime or not. Also draw the corresponding flow chart.
5. Write an algorithm to generate first 100 prime numbers. Also draw the corresponding flow chart.
6. Draw a flowchart to input three numbers in the variables a, b and c and hence to find the roots of the quadratic equation $ax^2 + bx + c = 0$. Consider carefully the zero input values of the coefficients a, b and c. **[OPTIONAL]**
7. Draw a flowchart to input 10 numbers, sort the numbers in ascending order and hence to write the numbers in sorted order. **[OPTIONAL]**