

COURSE: B.TECH.(CSE, CSI, MAC) (NSUT) / B.E. ( COE) (DU) SEMESTER: SECOND

COURSE CODE: CECSC01/CEC01/CACSC01/MCC03

COURSE NAME: DISCRETE STRUCTURES

FACULTY COORDINATOR: Mrs. VEENU, Assoc. Prof., CSE Department, NSUT.

#### Tutorial assignments

Implement these programs in C/C++ using windows operating system. Run them and mail the screen shots to your class teachers in every tutorial class as per time table. (One program for one class). Maintain hard copy of the same for final assessment.

1. WAP for addition , subtraction, union, intersection, difference , symmetric difference etc. of two sets. ( deadline jan 2020)
2. WAP for all operations on given multisets. (deadline jan 2020)
3. WAP for checking that given expression is a tautology, contradiction or contingency. (feb 2020)
4. WAP for checking that given relation is equivalence or not. (feb 2020)
5. WAP for generating next permutation in lexicographic order. (march 2020)
6. WAP for generating next combination in lexicographic order. (march 2020)
7. WAP for checking given poset is a lattice or not. (march 2020)
8. WAP for specifying principle of inclusion and exclusion. (march 2020)
9. WAP for solving the input recurrence relation given by user. (april 2020)
10. WAP for checking whether the given input is a group or not. (april 2020)
11. WAP for checking whether the given input is a ring or not. (april 2020)
12. WAP for finding path and cycles in any given graph. (april 2020)