

Vidush Somany Institute of Technology & Research, Kadi

CE / CSE / IT (3rd Semester)

Subject – Data Structures and Algorithms (CT303-N)

Assignment-1

- 1) What is data organization, and why is it important in computer science?
- 2) Explain the concept of arrays. How are arrays used in data organization?
- 3) What are the common operations performed on data structures?
- 4) Define and explain primitive and non-primitive data types.
- 5) Explain significance of data structure.
- 6) Define data structure. Explain linear and non-linear data structure with example.
- 7) Define time complexity? Explain worst case and best-case complexity with examples.
- 8) Explain the concept of user-defined data types with an example in a programming language.
- 9) What is a linked list, and how does it differ from an array?
- 10) What is a stack, and how does it differ from an array?