DATA STRUCTURES USING C

UNIT – 1: 1.1 Introduction to Data structures

Data structure deals with the composition of data to be manipulated by the program. This is done in conjunction with the algorithm for the program. Data structures are commonly used in many program designs. The study of data structures, therefore, rightly forms the central course of any curriculum in computer science and engineering.

The following are list of various terms used in data structures

Data: Value or set values.

Data item: Single unit of values.

Group item: Data items that are divided into sub-items.

Elementary items: Data items that are not divided into sub-items.

Entity: Something that has certain attributes or properties which may have assigned values

Example:	Attributes:	Name	Age	Sex
	Values:	Abhishek	16	Male

Entity set: Entities with similar attributes

Example: All employees in an organization.

Information field: Meaningful or processed data.

Field: Single elementary unit of information representing an attribute or an entity.

Record: Collection of records of the entities in a given entity set.

1.1 Definition of Data Structure

Data structure is the logical or mathematical model of a particular organization of data.

OR

Data structure is an organized collection of a number of related data items that are treated as one by the computer.

OR

A data structure is a logical method of representing data in memory.

1.2 Types of Data Structures

Data structures are classified as into two different types, namely:

1. Primitive data structures
2. Non-primitive data structures

1.2.1 Primitive data structures

The data structures are the pre-defined data types by programming languages, which can be directly operated are called primitive data structures. These are used by the programmer during the creation of new variables.

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