

# Data Structure

Prepared By: Prof. Kinjal Bhalodiya

# What is Data?

Data is a kind of information which is collected through some observation or predicted for any experiments.

# What is Structure?

It is an arrangement and organization of data/information/elements.

# What is Data Structure?

Data Structure is a way to organize data, so it can be used efficiently.

# Types of Data

Built-in Data Type

Derived Data Type

# Built-in Data Type

Integer

Boolean

Float

String

Character

# Derived Data Type

List

Arrays

Stack

Queue

# Types of Data Structure

Primitive Data Structure

Non-primitive Data Structure



# Primitive Data Structure

Integer

Boolean

Float

String

Character

# Non-Primitive Data Structure

Linear Data Structure

Non-Linear Data Structure

# Basic Operations of an Array

Traversing

Insertion

Deletion

Searching

Updating