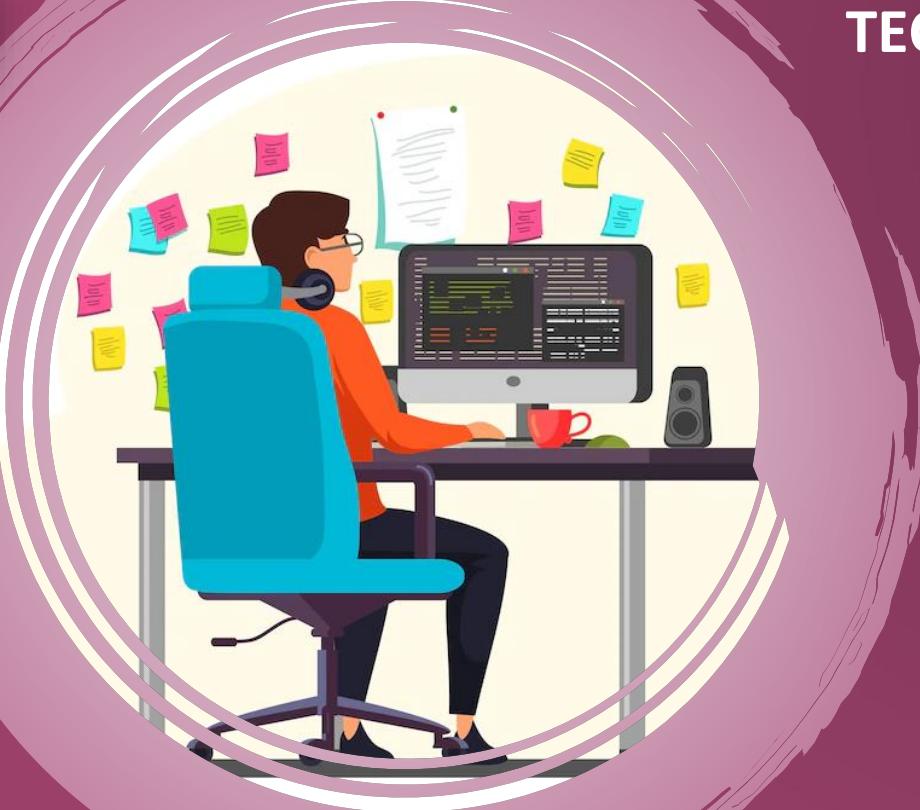




TAMILNADU ADVANCED
TECHNICAL TRAINING INSTITUTE



PYTHON

Data Structures

The data structure is a specific way of storing and organizing data in the computer's memory so that these data can be easily retrieved and efficiently used when needed later.

Categories

- Primitive data structure
- Non primitive Data Structure
 - Linear
 - Non-Linear

Types

- Built-in Types
- Derived Data Types

Basic Operations

- Traversing
- Searching
- Insertion
- Deletion
- Sorting
- Merging

Advantages

- Efficiency
- Reusability
- Abstraction

Why Data structures

- Data structures and algorithms are two of the key aspects in Computer science
- It allows us to organize and store data
- Code is more effective and reliable

Features

- Robustness
- Adaptability
- Reusability