

Stack

STUDY NOTES

- For faster accessibility and better storage of data, multiple data elements are grouped in a particular manner. Such grouping is referred to as data structure.
- Stack is an arrangement of elements in linear order.
- In a stack, elements are added and removed from the same end(top).
- Stack works on the principle of Last-In-First-Out.
- PUSH and POP are two fundamental operations performed on the stack.
- PUSH is used to insert an element on the TOP of the stack.
- POP is used to remove an element from the top.
- There are three types of notations for arithmetic Expressions:
 - ❖ **Infix expression:** Operators are placed in between the operands.
 - ❖ **Prefix:** Operators are placed before the corresponding operands.
 - ❖ **Postfix:** Operators are placed after the corresponding operands.