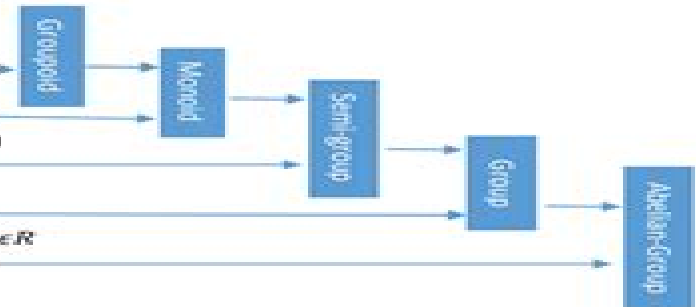


Ring Theory

Ring:

Definition: A nonempty set R together with two binary operations addition (+) and multiplication (.) is said to be Ring if the following properties are satisfied:

1. Ring $(R, +)$ is an abelian group.
 - a. Closure property with respect to addition
 - i. $\forall a, b \in R \implies a + b \in R$
 - b. Associative property with respect to addition
 - i. $\forall a, b, c \in R \implies (a + b) + c = a + (b + c)$
 - c. Additive Existence
 - i. $\forall a \in R \exists a + 0 = a = 0 + a \implies 0 \in R$
 - d. Multiplicative Existence
 - i. $\forall a \in R \exists a + a^{-1} = 0 = a^{-1} + a \implies a^{-1} \in R$
 - e. Commutative property with respect to addition
 - i. $\forall a, b \in R \implies a + b = b + a$
2. Associative property with respect to multiplication
 - a. $\forall a, b, c \in R \implies (a \cdot b) \cdot c = a \cdot (b \cdot c)$
3. Distributive property with respect to multiplication over addition.
 - a. $\forall a, b, c \in R \implies a \cdot (b + c) = a \cdot b + a \cdot c$ (Left distributive Property)
 - b. $\forall a, b, c \in R \implies (b + c) \cdot a = b \cdot a + c \cdot a$ (Right distributive Property)



Examples:

- The set of integer $Z = \{0, \pm 1, \pm 2, \pm 3, \dots\}$ is a ring
- The set of Even $E = \{0, \pm 2, \pm 4, \pm 6, \dots\}$ is a ring

Note:

- The set of Z of integers is a ring under usual addition and multiplication
- The set of Q, R, C respectively rational, real and complex numbers are also ring
- The set of E is a ring
- Let M be the set of all $n \times n$ matrices over real number then M is a ring with respect to addition and multiplication
- The Ring is denoted by $(R, +, \cdot)$

Commutative Ring:

Definition: A Ring $(R, +, \cdot)$ is said to be commutative ring if $\forall a, b \in R \implies ab = ba$

Ring with Unity:

Definition: A Ring $(R, +, \cdot)$ is said to be ring with unity if $\exists e \in R \implies ea = ae = a; \forall a \in R$

Ring with Unit:

Definition: Let R be a ring with unit 1, then an element $a \in R$ is called unit, if $\exists b \in R \implies ab = ba = 1$

Example:

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