# Number System

# Radix Conversion

**Octal to Decimal**

- Note all the place values of the octal value.

- Multiply the octal values by their corresponding place values.

- Sum up all the products.

# Radix Conversion

**Octal to Binary**

- Starting from the rightmost value, convert the octal digit to its corresponding 3-bit binary value.

- Attach all the converted 3-bit binary values for final result.

# Radix Conversion

**Hexadecimal to Decimal**

- Note all the place values of the hexadecimal value.

- Multiply the hexadecimal values by their corresponding place values.

- Sum up all the products.

# Radix Conversion

## Hexadecimal to Binary

- Starting from the rightmost value, convert the hexadecimal digit to its corresponding 4-bit binary value.

- Attach all the converted 4-bit binary values for final result.