1.7 Number Systems - Some Common Terms.

1.7.1 Binary Number System.

- Byte ⇒ basic unit of data operated upon as a single unit in computers.
- Computer word ⇒ A string of bits whose word length is fixed for a specified computer.
- The 1's complement of a binary no. is obtained by replacing 0s with 1s and 1s with 0s.
- The 2's complement of a binary no. is obtained by adding '1' to its 1's complement.

1.7.2 Decimal Number System.

- The 9's complement of a given decimal number is obtained by subtracting each digit from 9.
- The 10's complement of a decimal number is obtained by adding 1 to the 9's complement.

1.7.3 Octal Number System.

- The 7's complement is obtained by subtracting each octal digit from 7.
- The 8's complement is obtained by adding 1 to the 7's complement.

1.7.4 Hexadecimal Number System.

- The 15's complement is obtained by subtracting each hex digit from 15.
- The 16's complement is obtained by adding '1' to the 15's complement