



# Subject: Information and Communication Technology

## Lecture – 08

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# Outlines

- Web address & Hyperlink
- Number System

# Web address

A Uniform Resource Locator (URL), commonly informally termed a web address is a reference to a web resource that specifies its location on a Computer network and a mechanism for retrieving it.

**Example:** <http://www.sust.edu.bd>

Protocol (http) + WWW + Domain Name(sust) + Generic/2nd Top level domain (edu) + Top level domain (bd)

# Hyperlink

A hyperlink, or simply a link, is a reference to data that reader can directly follow either by clicking, typing or hovering. A hyperlink points to a whole document or to a specific element within a document.

# Web browser

A web browser, or simply 'browser,' is an application used to access and view websites.

**Web browser Name:** Common web browsers include

- Microsoft Edge
- Internet Explorer
- Google Chrome
- Mozilla Firefox, and
- Apple Safari.

# Search Engine

A search engine is a web-based tool that enables users to locate information on the World Wide Web.

# Search Engine Name

Popular examples of search engines are

- Google
- Yahoo!,
- Bing,
- Baidu,
- AOL,
- Ask.com,
- Excite,
- DuckDuckGoand
- MSN Search.

# The URL name of

- Ministry of Health and Family Welfare - **<http://www.mohfw.gov.bd/>**
- Directorate General of Health Services - **<https://www.dghs.gov.bd/>**
- The State medical faculty of Bangladesh - **<https://smfb.edu.bd/>**
- Dhaka medical college - **<http://dmc.gov.bd/>**
- Government of Bangladesh - **<https://bangladesh.gov.bd/>**



# Number System

The number system is the system of representing numbers. We know that a number is a mathematical value that helps to count or measure objects and it helps in performing various mathematical calculations. There are different types of number systems in math like decimal number system, binary number system, octal number system, hexadecimal number system.

# Classification of Number System

Name of the Number system	Base	Value/ Symbol Binary
Binary	2	0,1
Octal	8	0,1,2,3,4,5,6,7
Decimal	10	0,1,2,3,4,5,6,7,8,9
Hexadecimal	16	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F

# What is smallest unit of memory?

**Bit** is the smallest unit of memory.

# How many bits in 1GB?

$$1\text{GB} = 1024 * 1024 * 1024 * 8 \text{ bits}$$

# Secondary storage

Alternatively referred to as external memory and auxiliary storage, secondary storage as a storage medium that holds information until it is deleted or overwritten regardless if the computer has power. For example, a floppy disk drive and hard disk drive are secondary storage devices.

# Secondary storage

- We can differ secondary storage from a primary storage by
  - Limited capacity and the cost per bit of storage
  - Volatile- data stored in it is lost when the electric power is turned off or interrupted.

# Elaboration:

- GUI- Graphical User Interface
- CAD- Computer Aided Design
- OCR- Optical Character Recognition
- OMR-Optical Mark Recognition
- CRT- Cathode Ray Tube
- A/D- Analog to Digital
- ALU- Arithmetic Logic Unit
- ANSI- American National Standards Institute
- ASCII- American Standard Code for Information Interchange

# Elaboration:

- ATM- Automated Teller Machine
- WWW – World Wide Web
- VOIP – Voice Over Internet Protocol
- ISP – Internet Service Provider
- VIRUS - Vital Information Resources Under Siege
- SPSS – Statistical Package for the Social Sciences
- CD- Compact Disk
- CD-ROM- Compact Disk- Read Only Memory
- CPU- Central Processing Unite



# Elaboration:

- DBMS- Database Management System
- FORTRAN- Formula Translation
- FTP- File Transfer Protocol
- GB- Giga Byte
- CUI- Character User Interface
- HTML- Hyper Text Markup Language
- HTTP- Hyper Text Transfer Protocol
- Hz- Hertz
- I/O- Input and Output

# Elaboration:

- IC- Integrated Circuit
- IP- Internet Protocol
- LAN- Local Area Network
- LCD- Liquid Crystal Display
- LED- Light Emitting Diode
- DOS- Disk Operating System
- NIC- Network Interface Card

# Elaboration:

- NIC- Network Interface Card
- OS- Operating System
- PC- Personal Computer
- RAM- Random Access Memory
- ROM- Read Only Memory
- TB- Tera Byte
- TCP- Transmission Control Protocol
- UPS- Uninterruptible Power Supply

# Elaboration:

- POP- Post Office Protocol
- SMTP- Simple Mail Transfer Protocol
- HDD- Hard Disk Drive
- CD- Compact Disk
- ROM- Read Only Memory

**Any Questions ???**