# **Lecture 2**

**What will we learn today?**

* Introduction of window 10
* Features of window 10
* File explorer
* Cortana
* User management
* MS cloud storage
* Universal apps
* Web browser
* security

**Introduction of window 10**

Window 10 is a Microsoft personal computer operating system.

It was released at 29 July, 2015.

**Operating system**

Operating system is the system that provide the interaction between user and machine

**What’s new in it?**

Window 10 is an updated version of Microsoft and it is a combination of window 7.1 and 8 and it removes various issues that were appeared in these two windows of MS operating system. For example its bring back the start menu which removed from MS in window 8. MS introduced the concept of universal apps which are available for download from MS store. They may run on any MS platform including personal computers, mobile devices, and tablets and so on.

**Editions**

Window 10 OS is available in 12 editions and each edition having specific set of features for specific devices

Out of 12 editions some editions are distribute to specific devices, such as windows smartphones and IoT devices,

**Baseline:** this edition can purchase from retail outlet. It available for two following baseline editions

* **Home:** it is standard version of window 10 which runs all previous versions of window
  + Personal computers, tablets and includes all consumer-required features
* **Pro:** The Pro version adds data protection via encryption. Equivalent to window 8 pro edition.
  + Business users or organization.

**Organizational:** this edition are applicable for organizational setups. It can purchased only through volume licensing contracts with Microsoft Corporation where window 10 operating system is installed on all desktop and laptop.

* **Enterprises:** this edition has all features that are available in window 10 and also have some additional features which help to IT department of organization where window 10 OS is installed on all desktop and laptop.
* **Education:** this edition is available for educational institutions and is acquired through academic volume licensing process of MS Corporation. This edition has little less features than the enterprise edition.
* **Pro education:** only for those devices that are purchased using the discounted k-12 academic license. This edition doesn’t include some smart features of window 10, such as cortana and window spotlight.
* **Enterprise LTSB:** this edition is long term support edition and lightweight version that doesn’t include update, MS store, cortana, and edge or media players.
* **Mobile enterprises:** Windows 10 for smartphones and tablets. The Enterprise version includes extra features for IT management.

**Device-specific edition:** these editions is only available to device manufacturers. It may purchase of this edition is to purchase specific device. Such as smart phones and tablets.

* + **Mobile:** this edition is available for smartphones and tablet.
  + **Internet of things (IoT):** Embedded version for low-cost IoT and similar devices. Also available for small footprint.

**Features in window 10**

* **Task Bar:** task bar is display at bottom of the desktop screen it has some elements.
* **Start Menu:** at bottom left cornerlist frequently use application.
  + Two panes
  + Left panes
    - Left panes is a traditional menu from window 7 also called list of programs
    - All apps to show all apps in alphabetical order
    - Pin to start to take place in tiled menu
  + Right panes
    - Right panes is a Tiled menu from window 8 list of frequently used application
    - Multiple applications can be place here from left panes.
* **Search bar:** for any specific application or quick response we used search bar
  + It is known as cortana
  + It is window assistant
* **Multi-tasking:** we can run multiple programs or applications in window 10 which will shows through task viewalso can switch from one to another easily
* **Task view:** it allows to users to create multiple desktop for each application which helps to users for working so fast and easiest way
* **Quick launch icons:** the icons of application those are shows in task bar called quick launch icons or quick launch section. Any program can be open through single click.
* **Jump list:** right click of any quick launch icons open its jump list which shows all recently used files and links that may user can access again quickly
* **System tray:** the icons that are shows at the right side of the task bar called system tray or notification area.
* **Action center:** in window 10 all notification related to any application that are installed in system are show in action center and we can direct access of different settings of systems by action centers such as control panel, locations, network etc.
* **Show desktop button:** at the last of right corner of task bar show desktop button which helps to show desktop screen without closing any program. It do minimize all program and show the desktop window.

**File Explorer**

File explorer one of the most important features of window 10. Window 10 provide an improved version of file explorer.

It is file management application. It was the window explorer in previous version of windows now in window 10 it known as file explorer.

File explorer consists of 4 sections

* Ribbon
* Navigation pane
* Frequent folders
* Recent files

**Ribbon**

Ribbon section contain commands and buttons for most common task such as copy, paste, delete, view, share and so on. It consists of following tabs.

* **Home**
  + Clipboard
  + Organize
  + New
  + Open
  + select
* **Share**
  + Send
  + Share with
* **View** 
  + Panes
  + Layout
  + Current view
  + Show/hide

**Navigation pane**

Allow users to navigate to other files and folders and other devices in the pc.

* Download
* Documents
* Pictures
* Music
* OneDrives
* This pc
* Network
* Local disks

**Frequent Folders**

Most frequently use folders are display in this section

**Recent Files**

Most recently used files are shows in this section

By default it shows list of 20 recently used files.

**Cortana**

Cortana is MS’s intelligent personal assistant to users of window 10. It like virtual assistant that helps to users to find files , apps and folders in the pc set appointments, search and answers and much more

**User Management**

In window 10 a user account is used to log in to the system. There are two types of user accounts

* Administrator account
  + This account is used to specifically in an organizational setup
* General user account
  + Refers to any users whose account is create by administrator to log in to the pc

**MS Cloud Storage**

Cloud storage is a cloud computing model that stores data on the Internet through a cloud computing provider who manages and operates data storage as a service. It is method to sharing, retrieving and storing data that simple, readable and scalable. The MS cloud storage is called OneDrive.

**OneDrives** is online storage cloud where you upload your document, files, folders, images, also can share to particular address. It provides a secure platform to their users.

**Universal Apps**

With the launch of window 10 MS introduced universal apps .MS changed the way its apps working which meant that these all apps are available and applicable to all Microsoft platforms

Examples

Word, excel, etc.

**Web browsing**

With window 10, MS launch its new web browser called **EDGE.**

**Security**

Windows 10 enables users to protect their pcs from viruses and malware threat and attack using the following three security tools,

* User Account Control
  + This tool generate an alert when an applications or a user tried to change setting of pc.
  + For runs to any software or installation it required to admin password
* Window firewall
  + Officially called window defender in old versions it was named internet connection firewall after updating window version it was renamed windows defender firewall.
* Window defender
  + This is an antivirus and malware protection application Microsoft Defender Antivirus, formerly known as Windows Defender, is **an antivirus protection program** that's included with Windows 10. ... Microsoft Defender offers tracking prevention to help you manage how websites track your data and to give you more control over your privacy settings when browsing the web.