**DIVISION OF GEN. TRIAS CITY**

**Project ISuLAT – ACTIVITY SHEETS in Technology and Livelihood Education 10 (TLE)**
(Intensified Support to Learning Alternatives Through Activity Sheets)

**COMPUTER SYSTEM SERVICING G10**
**QUARTER 1–WEEK 5:  Operating System**

Name of Learner: _____     Date: _____

Grade & Section: _____     Teacher: _____

## MOST ESSENTIAL LEARNING COMPETENCY (MELC):

- Obtain materials necessary to complete the work in accordance with established procedures and check against system requirements. (TLE_IACSS9-12ICCS-Ia-e-28)

## Objectives:

1. Identify the different operating system
2. Determine the different versions of different operating system
3. Differentiate the versions of different operating system

## 🎯 TEACH ME

**Learning Task 1:**

**Look at the picture and answer the questions below.**



Questions:

What can you see on the picture?
Can you name what's in the picture?
 What do you think that picture represent?

 **Learning Task 2:**

An **operating system** (**OS**) is system software that manages computer hardware, software resources, and provides common services for computer programs. All computers and computer-like devices require operating systems, including your laptop, tablet, desktop, smartphone, smartwatch, and router.

**Different Operating System**
### 1. Windows Operating System
**Foundation of Microsoft**

Bill Gates and Paul Allen founded Microsoft, a company that makes computer software. Originally based in Albuquerque, New Mexico, Microsoft relocated to Washington State in 1979 and eventually grew into a major multinational technology corporation. Gates and Allen started Microsoft—originally called Micro-Soft, for microprocessors and software—in order to produce software for the Altair 8800, an early personal computer.

**MS-DOS - Microsoft Disk Operating System (1981)**

Originally developed by Microsoft for IBM, MS-DOS was the standard operating system for IBM-compatible personal computers. The initial versions of DOS were very simple and resembled another operating system called CP/M. Subsequent versions have become increasingly sophisticated as they incorporated features of minicomputer operating systems..



MS-DOS (Microsoft disk operating system)

**...0**
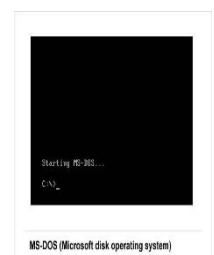
...ows 1.0 was the first OS with a graphical user interface. It was the upgraded version of MS-DOS and was launched in 1985. It has replaced MS-DOS commands with a graphical user interface.

**indows 2.0 (1987)**

Microsoft's Windows 2.0 was the start of its popularity as it added many user-friendly features. Microsoft added keyboard shortcuts and desktop icons to represent programs and files. It was the first in the history of Windows to have the most popular "maximize and minimize" feature.

**Windows 3.0 and Windows 3.1 (1990 and 1992)**

Microsoft released Windows 3.0 with 16 color support with better icons. Windows 3.0 included famous windows games like Hearts, Minesweeper, and Solitaire. It also came with File Manager, Program Manager, and Print Manager.



In 1992, upgraded version Windows 3.1 was released with necessary fixes and improved fonts. Further, in 1993 Windows 3.1 associated Windows NT 3.1 surfaced, and subsequently its improved versions Windows NT 3.5, Windows NT 3.51 were released
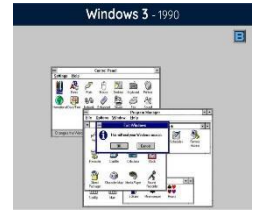
**Windows 95 (1995) and Windows NT 4.0 (1996)**

Windows 95 was the major upgrade of the previous Windows OS. Powered with a new user interface, Windows 95 sported 32-bit software support which made it one of the fastest Operating System.

**Windows 98 (1998)**

Windows 98 was the first OS with integrated Internet Explorer. It came with new technology support like DVD, USB, FAT32, etc.

Moving mouse on a program or feature enabled users to see "Help Tip" showing a short description. Later, Microsoft released Windows 98 SE with some bug fixes.

**Windows 2000(2000)**

Windows 2000 was released in February, 2000, and was based on Microsoft's NT technology. Microsoft now offered automatic software updates over the Internet for Windows



**Windows ME (2000)**

Microsoft released Windows Millennium Edition on Sep 14th, 2000. Key features include new media player with changeable skins and support of more file systems. Additionally, systems icons were improved with new high colors. There were not many new improvements in Windows Me except the feature of System Restore.




**Windows XP (2001)**

Windows XP was released on October 2001. A power-packed version of various Windows packages. Windows XP abandoned the age-old Windows 95 kernel core software code and introduced a more powerful codebase. It was released in 2 versions, Home and Professional.
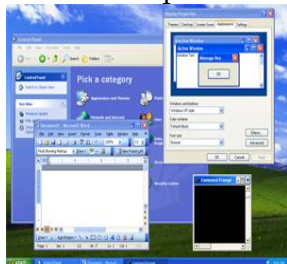


Windows XP was a full reproduction of other Windows family versions. It came with a fresh appearance, updated Windows Media Player, Internet Explorer, Help and Support, Microsoft Assistant, and MSN messenger.

**Windows Server (March 2003)**

Windows Server is a series of Microsoft server operating systems. Windows servers are more powerful versions of their desktop operating system counterparts and are designed to more efficiently handle corporate networking, Internet/intranet hosting, databases, enterprise-scale messaging and similar functions. The Windows Server name made its debut with the release of Windows Server 2003

and continues with the current release, Windows Server 2008 R2, which shares its codebase with Windows 7. Windows Server 2008 R2 debuted in October 2009.

**Windows Home Server (January 2007)**

Announced in January 2007, Windows Home Server (WHS) is a "consumer server" designed to use with multiple computers connected in the home. Home Server allows you to share files such as digital photos and media files, and also allows you to automatically backup your home networked computers. Through Windows Media Connect, Windows Home Server lets you share any media located on your WHS with compatible devices.



Windows Home Server (January 2007)

**Windows Vista (2007)**

Windows Vista was released on January 30, 2007 came with a new aero user interface with redesigned shell and security features. However, the OS was criticized widely because of its high system requirements, slow performance, security vulnerabilities, lack of compatibility with some pre-Vista hardware/software and lengthy boot time.

**Windows 7 (2009)**

Microsoft released Windows 7 in 2009 with matching UI of Vista. it was a similar version of its predecessor; Windows 7 met the user requirements. It upgraded Vista's Aero effects to the next level, making them transparent, cleaner, and speedy.

**Windows 8 (2012)**

In October 2012, Microsoft launched its latest desktop operating system, Windows 8. It is the first Micsrosoft's OS, which will be used on tablets and smart phones also. Microsoft removed the start menu to make Windows 8 touch-friendly. It also removed most loved Aero effects of Windows 7 and added a tiled interface.
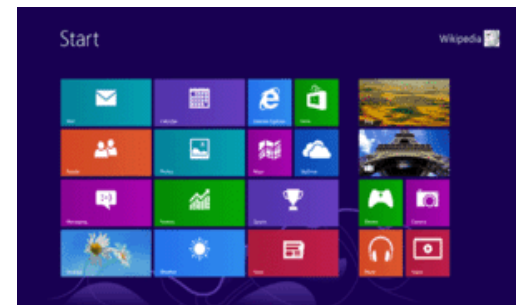


**Windows 10 (2015)**

Windows 10 debuted on July 29, 2015, following a "technical preview" beta release of the new operating system that arrived in Fall 2014 and a "consumer preview" beta in early 2015. Microsoft claims Windows 10 features fast start up and resume, built-in security and the return of the Start Menu in an expanded form. This version of Windows will also feature Microsoft Edge, Microsoft's new browser. Any qualified device (such as tablets, PCs, smartphones and Xbox consoles) can upgrade to Windows 10, including those with pirated copies of Windows. Incorporates Microsoft's intelligent personal assistant Cortana

**Mac Operating System**

**Mac OS**, operating system (OS) developed by the American computer company Apple Inc. The OS was introduced in 1984 to run the company's Macintosh line of personal computers (PCs). The Macintosh heralded the era of graphical user interface (GUI) systems, and it inspired Microsoft Corporation to develop its own GUI, the Windows OS.

**Evolution of Mac OS**

**Leopard**
Mac OS X v10.5

ANNOUNCED:
WWDC 2006 – August 7, 2006
RELEASED: Oct. 26, 2007
KEY FEATURES:
Redesigned 3D Dock with Stacks;
Cover Flow; Quick Look; Spaces;
Time Machine; Boot Camp
PRICE: $129

**Snow Leopard**
Mac OS X v10.6

ANNOUNCED:
WWDC 2009 – June 9, 2009
RELEASED: August 28, 2009
KEY FEATURES:
64-bit; Grand Central Dispatch;
OpenCL; improved system
performance
PRICE: $29 for Leopard users;
$169 for Tiger users

**Panther**
Mac OS X v10.3

ANNOUNCED:
WWDC 2003 – June 23, 2003
RELEASED: Oct. 24, 2003
KEY FEATURES:
Exposé; iChat AV; Safari; FileVault;
Font Book; Xcode; updated Finder
PRICE: $129

**Tiger**
Mac OS X v10.4

ANNOUNCED:
WWDC 2004 – June 28, 2004
RELEASED: April 29, 2005
KEY FEATURES:
Spotlight; Dashboard; Safari RSS;
iChat with multi-video and multi-audio;
Automator; VoiceOver
PRICE: $129

**Mountain Lion**
OS X v10.8

ANNOUNCED:
Online – Feb. 16, 2012
RELEASED: July 25, 2012
KEY FEATURES:
iCloud; Reminders; Notes; Messages;
Notification Center; Dictation;
Facebook and Twitter integration;
Airplay; Game Center;
Gatekeeper
PRICE: $19.99

**Yosemite**
OS X v10.10

ANNOUNCED:
WWDC 2014 – June 2, 2014
RELEASED: Oct. 16, 2014
KEY FEATURES:
New design; Continuity; Handoff;
revamped Apps; iCloud Drive
PRICE: Free

**El Capitan**
OS X v10.11

ANNOUNCED:
WWDC 2015 – June 8, 2015
RELEASED: Sept. 30, 2015
KEY FEATURES:
Split View; streamlined Mission Control;
smarter Spotlight; Maps with
public transit; Metal support;
in-app Multi Touch gesture support;
performance improvements
PRICE: Free

**Mavericks**
OS X v10.9

ANNOUNCED:
WWDC 2013 – June 10, 2013
RELEASED: Oct. 22, 2013
KEY FEATURES:
iBooks; Maps; Tags; iCloud Keychain;
Finder tabs; Multiple Display support;
updated Notification Center
PRICE: Free!

**Sierra**
macOS v10.12

ANNOUNCED:
June 13, 2016
RELEASED: Sept. 20, 2016
KEY FEATURES:
Apple's voice-activated assistant Siri,
now on the desktop; Universal Clipboard
for sharing content with iOS devices;
Auto Unlock with your Apple Watch
PRICE: Free

**High Sierra**
macOS v10.13

ANNOUNCED:
WWDC 2017 – June 5, 2017
RELEASED: Fall 2017
KEY FEATURES:
Apple File System; HEVC; Metal 2;
Virtual Reality support;
updated Photos and Safari
PRICE: Free

**Mojave**
macOS v10.14

ANNOUNCED:
WWDC 2018 – June 4, 2018
RELEASED: Fall 2018
KEY FEATURES:
Updated UI with new Dark Mode;
Desktop and Finder enhancements,
including 'Stacks'; Group FaceTime;
Revamped Mac App store;
Security enhancements;
Screenshot video recording;
Continuity camera
PRICE: Free

## Linux Operating System

Linux began in 1991 as a personal project by Finnish student Linus Torvalds: to create a new free operating system kernel. The resulting Linux kernel has been marked by constant growth throughout its history. Since the initial release of its source code in 1991, it has grown from a small number of C files under a license prohibiting commercial distribution to the 4.15 version in 2018 with more than 23.3 million lines of source code, not counting comments,[1] under the GNU General Public License v2.

**Linux OS**

Linux was released
September 17 of 1991

Slackware
1993

Debian
1993

Red Hat
November 3rd, 1994

KDE
1996

Gnome
May 2000

Knoppix
September 30th, 2000

Ubuntu
October 20th, 2004

Mint
2006

![LEARN MORE icon] **L**EARN MORE

**Learning Task 3:**

**Operating Systems and their Versions**
Discuss the good and bad points of the different Operating System and their versions.



**Learning Task 4:**

 **Directions**: Based on your knowledge in computer, summarize and share your thoughts about the importance of operating system to your computer.

![EVALUATE NOW icon] **E**VALUATE NOW

**SUMMATIVE ASSESSMENT:**

**A. WRITTEN TASK:**
**Directions: WRITE your answer on your answer sheet.**

1. It is a system software that manages computer hardware, software resources, and provides common services for computer programs.

a.      Linux OS                                        c. Operating system
b.      Mac OS                                         d. Windows OS

2. An operating system developed by the American computer company Apple Inc.
a.      Linux OS                                        c. Operating system
b.      Mac OS                                         d. Windows OS

3. An operating system began in 1991 as a personal project by Finnish student Linus Torvalds made to create a new free operating system kernel.
a.      Linux OS                                        c. Operating system
b.      Mac OS                                         d. Windows OS

4. Operating system produced and developed by Microsoft.
a.      Linux OS                                        c. Operating system
b.      Mac OS                                         d. Windows OS

5. Founders of Microsoft
a.      Steve Jobs                                      c. Linus Torvalds
b.      Bill Gates and Paul Allen                    d. Mark Zuckerberg

6. The evolution of Windows which was originally developed for IBM.
a.      MS DOS                                         c. Windows 10
b.      Windows 1.0                                    d. Windows 8

7. The first operating system with integrated Internet Explorer.
a.      Windows 7                                      c. Windows 98
b.      Windows 2000                                   d. Windows ME

8. The first Microsoft operating system that will be used on tablets and smartphones.
a.      MS DOS                                         c. Windows 10
b.      Windows 1.0                                    d. Windows 8

9. This version of Windows feature Microsoft Edge, Microsoft's new browser.
a.      MS DOS                                         c. Windows 10
b.      Windows 1.0                                    d. Windows 8

10. A version of Mac OS that was released in July 25, 2012 and has key features of iCloud, Reminders, Notes, messages, Dictation, airplays, etc.

a.      Cheetah                                    c. Mountain Lion
b.      Jaguar                                     d. Yosemite
11. A version of Mac OS that was released in October 16, 2014 that has New Design, Continuity, Handoff, revamped Apps and icloud as key features.
a.      Cheetah                                    c. Mountain Lion
b.      Jaguar                                     d. Yosemite
12. Mac OS that was announced in a Macworld Expo in San Francisco on January 5, 2000 and was released on March 24, 2001.
a.      Cheetah                                    c. Mountain Lion
b.      Jaguar                                     d. Yosemite
13. This version of Mac OS was released in Fall of 2017.
a.      Cheetah                                    c. High Sierra
b.      Mojave                                     d. Yosemite
14. This version of Linux OS was released in November 3, 1994.
a.      Slackware                                  c. Red Hat
b.      KDE                                        d. Gnome
15. A version Linux OS that was released in May 2000.
a.      Slackware                                  c. Red Hat
b.      KDE                                        d. Gnome

## B. PERFORMANCE TASK

**Direction: Using the picture below, explain how operating system works.**