Software System

Short Introduction of Unit

Software is an integral part of any computing system, acting as the intermediary between the user and the hardware. In this chapter, we will explore the significance of system software and application software, understanding their roles, functions and applications in various domains.

Q.1 Discuss the importance of system software in a computing system. Also describe the role of application software with suitable examples.

Ans. Software is a collection of programs and instructions that tell a computer what to do and how to do. Without software, computers would be useless machines.

Types of Software

1. System Software

System software is designed to manage the system resources and provide a platform for application software to run. It acts as a bridge between the hardware and the user applications. Here are some examples:

Operating Systems: Examples include Microsoft Windows, macos, and Cinux

Device Drivers: These include printer drivers, graphics card drivers, and sound card drivers.

• Utility Programs: Examples are antivirus software, disk cleanup tools, and backup software.

2. Application Software

Application software is designed to help users perform specific tasks. These programs are built to fulfill user needs and are typically more varied than system software. Examples include:

- Word Processors: Such as Microsoft Word and Google Docs.
- Web Browsers: Such as Google Chrome, Mozilla Firefox, and Safari.
- Games: Such as Minecraft, Fortnite, and Among Us.
- Media Players: Such as VLC Media Player and Windows Media Player.

SOFTWARE & ITS TYPES

- System Software
- Application Software
- MS Windows



Online Lecture





publications.unique.edu.pk 🕜 UGI.publications 🔘 uniquenotesofficial 🖸 @Uniquepublications 🔇 0324-6666661-2-3

Q.2 Describe the role of operating systems, utility software, and device drivers, providing examples of each.

Ans. An Operating System (OS) is a type of system software that manages all the hardware and software on a computer. It acts as an intermediary between the computer hardware and the user applications. The operating system ensures that different programs and users running on a computer do not interfere with each other. Some most commonly used operating systems are:

A popular OS for personal computers developed by Microsoft. It has a start menu, taskbar, and

windows for applications.

macOS: An OS for Apple's Mac computers. It has a dock at the bottom of the screen and unique

features like Mission Control

Linux: An open-source O\$ that is used for everything from servers to desktop computers. It can look different depending on the distribution (version) you use.

Android: An OS for smartphones and tablets, developed by Google. It is used on many different

devices from various manufacturers.

iOS: An OS for iPhones and iPads, developed by Apple. It is known for its smooth perform Let's study some key functions of an operating system.

Utility Programs

Utility programs are essential components of system software that enhance the functional computer system. They perform various tasks to ensure smooth operation and management of hardware, software, and data. Here are some common utility programs along their functionalities in real-life scenarios.

Device Drivers

A device driver is like a translator between the computer and its gadgets.

Example: Think of a device driver like a TV remote control.

- TV (Device): It can change channels, adjust the volume, and more, but it needs instructions
- Remote Control (Driver): Sends the correct signals to the TV to perform these actions.
- Computer: You decide what you want to watch or adjust and use the remote control to the TV.

Managing Hardware Resources

One of the primary functions of an operating system is to manage the hardware resources computer system. This includes the CPU, memory, disk drives, and peripheral devices such printers and kenboards.

Example: When you open a web browser while listening to music on your computer. operating system allocates CPU time and memory to both the web browser and the music place It ensures that both applications run smoothly by managing the resources effectively.



Screenshot of windows desktop (H.Q Picture is available on Pg# 237)

Q.3 Differentiate between GUI and CLI.

09505003

Ans. The operating system provides a User Interface (DI) that allows users to interact with the computer.

There are two main types of user intenfaces?

• Graphical User Interfaces (GUIs)

• Command-Line Interfaces (CLIs)

Graphical User Interface (GUI)

A GUI allows users to interact with the Computer using visual elements such as windows, icons, and menus. This type of interface is user-friendly and intuitive, making it easy for users to navigate and perform tasks.

Example: Microsoft Windows and macOS are operating systems that use GUIs. Users can click on icons to open applications, drag and drop files to move them, and use menus to access different functions.

Command-Line Interface (CLI)

A CLI requires users to type text commands to perform specific tasks. This interface is more flexible and powerful, but it can be more difficult for beginners to use.

Example: Linux and Disk Operating System (DOS) provide CLIs. User can type commands to copy files, run programs, and configure system settings.



Screenshot of a macOS desktop

Q.4 Describe the process of using utility software to optimize system performance and maintain security. Provide detailed steps and examples of common utility tools. 09505004

Ans. The operating system is responsible for running applications on a computer. loads applications into memory, allocates the necessary resources, and manage their execution. The OS also ensures that applications do not interfere with each other and that they run efficiently.

Example: When you open a word processor like Microsoft Word, the operating system loads the application into the computer's memory and affocates CPU time for it to run. If you open multiple applications, the OS manages the distribution of resources so that all applications can run simultaneously without performance issues.

1. Utility Programs

Utility programs are essential components of system software that enhance the functionality of a computer system. They perform various tasks to ensure smooth operation and efficient

management of hardware, software, and data. Here are some common utility programs along with their functionalities in real-life scenarios.

2. Disk Cleanup

Functionality: Disk Cleanup scans your hard drive for temporary files, cached files, and other unnecessary items that can be safely deleted.

Real-life Scenario

After using your computer for a while, you notice it's running slower than usual. Running Disk Cleanup can help reclaim disk space, potentially improving performance.

3. Antivirus Software

Antivirus software scans files and incoming data for known viruses and malware signatures. It also provides real-time protection to prevent virus attacks.

Real-life Scenario

You receive an email attachment from an unknown sender Before opening it, you run your antivirus software to scan for any potential threats, ensuring your computer remains safe.

4. Backup Software

Backup software schedules regular backups of files and folders to external drives, cloud storage, or network locations. It allows for full system backups or selective file backups.

Real-life Scenario

You accidentally delete an important presentation file. Using backup software, you retrieve the latest backup version of the file, ensuring minimal disruption to your work.

File compression tools reduce file

size to save storage space and make

file transfer faster.

5. File Compression Tools

File compression tools compress one of multiple files a single archive format (e.g., ZIP, RAR) while preserving data integrity. They also provide options for encryption and password protection

Real-life Scenario

You need to send a large folder of high-resolution photos via email. Using a file compression tool, you create a ZIP archive to reduce file size, making it easier and quicker to upload and send. These essential programs are essential for maintaining the efficiency, security, and reliability of your computer system.

Explain how to install, update, and troubleshoot device drivers for hardware 0.5 components.

Ans. Installing, updating, and debugging device drivers are critical steps in ensuring that hardware components perform properly and efficiently. Drivers serve as an interface between the operating system and the hardware, translating commands to ensure correct communication.

Automatic Installation via Plug-and-Play

Modern operating systems, like Windows or macOS, often detect and install drivers automatically for Plug-and-Play devices.

Steps

1. Connect the hardware to the computer (e.g., via USB, HDMI, or other interfaces).

2. The operating system searches its built-in driver library or the internet for the appropriate driver

3. Once found, the driver is installed, and the device is ready for use. MANNO!

Example: Connecting a USB mouse or keyboard typically requires no manual intervention as the OS installs the drivers automatically.

Using Automatic Updates

Most modern operating systems automatically update drivers to ensure compatibility and performance.

1. Open the system settings or control panel.

2. Ensure automatic updates are enabled. For example, in Windows, check for updates via Settings > *Update & Security > Windows Update.*

3. If a driver update is available, it will be downloaded and installed automatically.

Example: Windows Update regularly provides updates for common hardware components like network adapters and display drivers.

Troubleshooting

Troubleshooting drivers device for components is essential when devices fail to function properly or cause errors. Problems may arise from outdated, corrupted, or incompatible drivers. Here's a step-by-step guide to troubleshooting drivers effectively:

Did you know?

Did you know?

A plug and Play (PnP) device automatically configure itself when

computer.

to

simplifying installation and use.

connected

The first operating system was created in the 1950s for IBM computers and was called GM-

Pinpoint the Problem

Install the Latest Driver

Restore the Previous Driver

Reconfigure the Driver

Test for Compatibility

Run Diagnostic Utilities

• Use a Different Machine for Testing

Discuss the main functions of commonly used application software, such as word processing & spread sheet.

Ans. Application software refers to programs designed to perform specific tasks for users, ranging from productivity and creativity to entertainment and education.

Commonly used application software

1. Word Processing Software

Word processing software is a type of application software used for creating, editing, formatting, and printing documents. These software programs are essential tools for writing letters, reports, essays, and other text-based documents.

Example of Word Processing Software

Microsoft Word: Available on Windows and macOS. Microsoft Word is one of the most widely used word processors. It offers a range of features including text formatting, spell check, grammar check, and the ability to insert images, tables, and charts.

Google Docs: A web-based word processor available on any operating system with internet access. Google Docs allows for real-time eollaboration, where multiple users can edit a document simultaneously. It also integrates with other Google services.

Apple Pages: Available on macOS and iOS. Apple Pages provides a user-friendly interface with powerful tools for creating beautiful documents. It includes templates, design tools, and easy integration with other Apple products.

NAA I/O. E).COM • LibreOffice Writer: Available on Windows, macOS, and Linux, LibreOffice Writer is a free and open-source word processor. It offers a robust set of features similar to Microsoft Word, making it a great alternative for users who prefer open-source software.

2. Spreadsheet Software

Spreadsheet software is a type of application software used for organizing, analyzing, and storing data in tabular form. Spreadsheets consist of a grid of cells arranged in rows and columns, where users can input data, perform calculations, and create charts.

Examples of Spreadsheet Software

- Microsoft Excel: Available on Windows and macOS, Microsoft Excel is one of the most widely used spreadsheet programs. It offers powerful features including complex formulas, pivot tables, and a variety of chart options.
- Google Sheets: A web-based spreadsheet available on any operating system with internet access. Google Sheets allows for real-time collaboration, where multiple users can edit a spreadsheet simultaneously. It also integrates with other Google services.
- Apple Numbers: Available on macOS and IOS, Apple Numbers provides a user-friendly interface with strong visualization tools for creating visually appealing spreadsheets. It includes templates and easy integration with other Apple products.
- LibreOffice Calc: Available on Windows, macOS, and Linux, LibreOffice Calc is a free and open-source spreadsheet program. It offers a robust set of features similar to Microsoft Excel, making it a great alternative for users who prefer open-source software.

Q.7 How Graphic Designing Software is used? Give some examples.

Op505007

Ans. Graphic design software is a type of application software used for creating, editing, and managing visual content. These programs provide tools for drawing, painting, photo editing, and creating illustrations, making them essential for designers, artists and anyone involved in visual media. Graphic design software is used in various industries, including advertising, web design, publishing, and multimedia production.

Example of Graphic Design Software

- Adobe Photoshop: Available on Windows and macOS, Adobe Photoshop is one of the most popular graphic design programs. It offers powerful tools for photo editing, digital painting, and graphic design.
- Adobe Illustrator: Available on Windows and macOS. Adobe Illustrator is a vector graphics editor used to create logos, illustrations, and scalable graphics that maintain quality at any size.
- CorelDRAW: Available on Windows and macOS, CorelDRAW is a vector graphics editor known for its user-friendly interface and robust feature set, ideal for creating professional graphics and layouts.
- GNU Image Manipulation Program (GIMP): Available on Windows, macOS, and Linux, GIMP is a free and open-source graphic design program. It offers many features similar to Adobe Photoshop, making it a great alternative for users who prefer open-source software.
- Canva: A web-based graphic design tool accessible on any operating system with internet access. Canva provides an easy-to-use interface with a wide range of templates and design elements, making it perfect for beginners and professionals alike.

Topic Wise Short Questions (Additional)

System & Application Software

Q.1 What is software?

09505008

Ans: Software is a collection of programs and data that instructs a computer how to do specific tasks. Software often comes with accompanying documentation.

Q.2 What are the types of software?09505009 Ans: Software can be classified into the following types:

- System software
- Application software

Q.3 Describe System software.

Op505010

Ans. The software used to control, monitor, or facilitate the use of the computer is called system software.

Types of system software

Following are the types of system software.

- Operating system
- Device drivers
- Utility programs

• Language processors

Q.4 What is application software?

09505011

Ans. The Application software is a program created to perform a specific task for user. Application software is developed for computer users to solve their problems such as preparing a letter, creating a presentation or managing a database.

Types of application software

Commonly used application software is following:

- Productivity software.
- Business software.
- Entertainment software.
- Education software.

Q.5 Define Operating System (OS). 09505012

Ans. An operating system is a set of programs running on a computer system and providing an environment in which other programs can be executed and the computer system can be used efficiently. Examples:

MS windows, DOS, LVIX etc.

Q.6 Discuss the functions of Operating System (OS). 09505013 Ans. The following tasks are performed by the operating system.

- Manages hardware resources.
- It controls the operation of input/output and storage devices.
- It detects hardware failures and displays messages to fix them.
- Loads and executes programs.

Q.7 Describe the basic functions of Device Drivers. 09505014

Ans. A device driver is system software that controls the operation of a computer device. When users attach a device such as printer or scanner to their computer, they should install its driver also to make it operational. Device drivers are provided by device manufactures.

O.8 Why system software is essential?

Ans. System software is essential for the operation of a computer system, acting as an intermediary between the hardware and the user applications. It ensures that the hardware components of a computer work together efficiently and provides a stable environment for application software to run.

Q.9 What are the most commonly used
Operating Systems?

Operating Some most commonly used operating

Ans. Some most commonly used operating systems are:

- Windows
- macOS
- Linux
- Android
- IOs

Q.10 What do you know about Linux?

09505017

Ans. An open-source OS that is used for everything from servers to desktop computers. It can look different depending on the distribution (version) you use.

Q.11 How OS helps in running applications? 09505018

Ans. The operating system is responsible for running applications on a computer. Loads

applications into memory, allocates the necessary resources, and manage their execution. The OS also ensures that applications do not interfere with each other and that they run efficiently.

Q.12 Why Antivirus software is used?

09505019

Ans. Antivirus software scans files and incoming data for known viruses and malware signatures. It also provides real-time protection to prevent virus attacks.

Q.13 What do you know about file compression? 09505020

Ans. File compression tools compress one or multiple files into a single archive format (e.g., ZIP, RAR) while preserving data integrity. They also provide options for encryption and password protection.

Q.14 Give some examples of word processing software.

Ans. Example of Word Processing Software:

Microsoft Word

Google Docs

Apple Pages

LibreOffice Writer

Q.15 Explain the purpose of using spread sheet software. 09505022

Ans. Spreadsheet software is a type of application software used for organizing, analyzing, and storing data in tabular form. Spreadsheets consist of a grid of cells arranged in rows and columns.

Q.16 Give some examples of using spread sheet software.

09505023

Ans. Examples of Spreadsheet Software:

- Microsoft Excel
- Google Sheets

• Apple Numbers

· LibreOffice Cafe

Q.17 What do you know about Apple Numbers? 09505024

Ans. Available on macOS and iOS, Apple Numbers provides a user-friendly interface with strong visualization tools for creating visually appealing spreadsheets. It includes templates and easy integration with other Apple products.

Q.18 Why we use graphic designing software? 09505025

Ans. Graphic design software is a type of application software used for creating, editing, and managing visual content. These programs provide tools for drawing, painting, photo editing, and creating illustrations, making them essential for designers, artists and anyone involved in visual media

Q.19 Describe the role of Canva. 09505026

accessible on any operating system with internet access. Canva provides an easy-to-use interface with a wide range of templates and design elements, making it perfect for beginners and professionals alike.

Q.20 What is the purpose of Adobe Photoshop? 09505027

Ans. Available on Windows and macOS. Adobe Photoshop is one of the most popular graphic design programs. It offers powerful tools for photo editing, digital painting, and graphic design.

Topic Wise Multiple Choice Questions (Additional)

Choose the correction option.

Software & Utility Programs

1. The first computer virus was created

in?

0950502

(a) 1970 NNO

(b) 1971

(d) 1973

2. What was the name of first created

virus?
(a) Greeper

(b) Creeper

(c) OS

(d) UDP

3	Which of the following is NOT a								8. What does 'scalability' mean in a o9505035													
٥.											N	Sol	twar	e sy	stem	300	21			50503	5	
	Ciiai	characteristic of a software system?					77	(a) Ability to function with minimal														
	(a) S	(a) Scalability (b) Tangibility				1</th <th colspan="11">resources</th>	resources															
	(c) Maintainability (d) Reliability										(b) Ability to expand and handle											
4	What is the primary goal of software				re		increased workloads															
7.	doci	design in system development? 09505031				(c) Ability to integrate with third-party software																
					1010	evelopment. 05303031						(d) Ability to prevent system crashes										
	(a) Writing code																					
	(b) Minimizing system errors(c) Defining the system architecture									9. Which of the following ensures data consistency in a software system?												
							niteci	ure				co	nsist	ency	in a	soft	ware	sys	tem?			
	(d) Testing the software													•				09	50503	6		
5.	In software systems, modularity refers to: 09505032						(a)) Fau	lt tol	eran	ce											
							(b) Transaction management															
	(a)]	Testir	ng in	divid	lual	comp	oner	nts			(c) Scalability											
	sepa	ratel	y								(d) Modular design											
	(b) I	Break	ing	a system into smaller,							10. Which type of software testing focuses											
	1	mana	geab	ole pa	rts							o. vi			enti		softv	vare	SV	sten	n's	
	(c) \(\text{I}	Jsing	gext	ernal	libr	aries	ın a j	proje	ct				erfor	- TO 1 THE						950503		
	(d)-1	Writi	ng r	eusab	ole co	ode		41				SSTEED VIEW STATE										
6.	Wh	Which term describes software that is					(a) Unit Testing (b) Integration Testing															
	designed to adapt to changes in user needs? 09505033					1 (21111111)																
						(c) System Testing																
	(a) Portable software									d) Regression Testing												
	(b) Configurable software									11. What does "version control" in												
	(c) Flexible software									software development refer to? 09505038												
7	(d) Robust software The term "middleware" in software																					
1.	systems refers to 09505034										(a) Writing the initial code for a software											
	(0)	(a) Software that bridges communication between systems					1	system														
							(b) Managing changes to source code over time															
	(b) Tools for debugging software					(c) Monitoring system uptime and																
	(c) User-facing applications							performance (d) Testing software before release														
	(d) Backend databases																					
	(u) Duckella u																					
									Aı	nsw	er k	Key										
				1	1						1		1.5					1.	10		7	
	1	b	2	b	3	b	4	c	5	b	6	C	7	a	8	b	9	b	10	c		
	11	b																				
		1 ~	J																			
								S	olv	ed	Exe	erci	se									
Chaose the correct option. (d) To design graphics																						
Choose the correct option.														UIN	to 0	nha	no					
1	1. What is the primary function of an operating system? (a) To create documents (b) To manage hardware resources and							In	2.	Vhie	1 /30	IFW	ille c	is u	dea	to e	11111a	ne				
								101	1 Us	yster	n pe	rior	man	ce an	a se	curit	y: 09505	040				
								11	(a) Operating system (b) Utility software													
								nd														
	provide a user interface																					
								(c) Application software														
	(c) To perform calculations							(d) Device drivers														

3.	What role do device drivers play in a	(c) Utility software performs specifi									
	computer system? 09505041	tasks for users, while application									
	(a) Manage Files	Software manages hardware									
	(b) Facilitate communication between	(d) Utility software is free, whil									
	hardware devices and the operating	application software is paid									
	system	7. Which type of software would you us									
	(c) Create Presentations	to design a logo? (a) Operating system									
	(d) Enhance Graphic performance	(b) Spreadsheet software									
4.	Which of the following is an example	(c) Graphic design software									
	of application software? 09505042	(d) Utility software									
	(a) Microsoft Word	8. What is the function of system									
	(b) BIOS	software? 09505046									
	(c) Disk Cleanup	(a)To facilitate communication between									
	(d) Device Manager	hardware and software									
5.	에 마른 사람들은 사람들은 다른 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	(b) To perform specific tasks for the user									
٥.	What is the main purpose of a spreadsheet software?	(c) To Create visual content									
		(d) To organize and analyze data 9. Why are operating system undates									
	(a) To edit text documents	in the second aparts									
	(b) To organize and analyze data	3/18/1/10/05									
	(c) To create visual content	They increase screen brightness									
-	(d) To enhance system security	(a) They add more fonts									
0.	How does utility software differ from	(c) They enhance security and fix bugs									
	application software? 09505044	(d) They improve battery life									
	(a) Utility software manages hardware,	10. What is a common task you can									
	while application software performs	perform using word processing software? 09505048									
	specific tasks for users										
	(b) Utility software creates documents,	(a) Create and edit text documents(b) Manage hardware resources									
	while application software manages										
	hardware	(c) Enhance system performance									
-		(d) Organize and analyze data									
A	Answe	er Kev									
	b 2 b 3 b 4 a 5 b										
	1 b 2 b 3 b 4 a 5 b	6 a 7 c 8 a 9 c 10 a									
	Short O	uestions									
0.1											
	Q.1 Define system software and provide Ans: Utility programs are essential										
two examples. Ans: Short Question No. 3 Opposite the components of system software that enhance the components of system software the components of system s											
Q.2	Explain the primary functions of an	the functionality of a computer system. They									
	rating system.	perform various tasks to ensure smooth									
	Short Question No. 6	operation and efficient management of									
Q.3	What is utility software and why is it	hardware, software, and data.									
imp	ortant? 09505051										

Describe the role of device drivers in a computer system.

Ans: Short Question No. 7

Q.5 Differentiate between system software and application software with examples.

Ans: Short Question No. 3,4

Q.6 What are the main functions of spreadsheet software?

Ans: Short Question No. 15

Q.7 How can graphic design software be used in the field of education?

Ans. Graphic design software can be used in education to create visually appealing as infographics, such information

presentations, e-books, Oand interactive learning resources. It helps to explain Complex ideas, boosts creativity, and makes Tearning more engaging and visually appealing to kids.

Q.8 What is the significance of data backups and how can they be performed?

Ans. Backup software schedules regular backups of files and folders external drives, cloud storage, or network locations. It allows for full system backups or selective file

Long Questions

backups.

Q.1 Discuss the importance of system software in a computing system.

09505055

Ans. Long Question No. 1 (Before Point # 2)

Q.2 Describe the role of operating systems, utility software, and device drivers, providing examples of each.

Ans. Long Question No. 2

reand application software. Q.3 Explain the differences between system softwa Ans. Purpose: System software manages and operates computer hardware, making it possible for application software to run. Application software helps the user to perform specific tasks.

Examples: System software includes operating systems and device drivers. Application software

includes word processors, web browsers, and games.

Installation: System software is usually pre-installed on a computer, while application software

can be installed by the user as needed.

Q.4 Describe the process of using utility software to optimize system performance and maintain security. Provide detailed steps and examples of common utility tools.

Ans. The operating system is responsible for running applications on a computer. Loads applications into memory, allocates the necessary resources, and manage their execution. The OS also ensures that applications do not interfere with each other and that they run efficiently.

Example: When you open a word processor like Microsoft Word, the operating system loads the application into the computer's memory and allocates CPU time for it to run. If you open multiple applications, the OS manages the distribution of resources so that all applications can run

simultaneously without performance issues.

1. Utility Programs

Utility programs are essential components of system software that enhance the functionality of a computer system. They perform various tasks to ensure smooth operation and efficient management of hardware, software, and data. Here are some common utility programs along with their functionalities in real-life scenarios.

2. Disk Cleanup

Functionality: Disk Cleanup scans your hard drive for temporary files, cached files, and other unnecessary items that can be safely deleted.

Real-life Scenario

After using your computer for a while, you notice it's running slower than usual. Running Disk Cleanup can help reclaim disk space, potentially improving performance.

3. Antivirus Software

Antivirus software scans files and incoming data for known viruses and malware signatures. It also provides real time protection to prevent virus attacks.

Real-life Scenario

You receive an email attachment from an unknown sender Before opening it, you run your antivirus software to scan for any potential threats, ensuring your computer remains safe.

4. Backup Software

Backup software schedules regular backups of files and folders to external drives, cloud storage. or network locations. It allows for full system backups or selective file backups.

Real-life Scenario

You accidentally delete an important presentation file. Using backup software, you retrieve the latest backup version of the file, ensuring minimal disruption to your work.

5. File Compression Tools

File compression tools compress one or multiple files into a single archive format (e.g., ZIP, RAR) while preserving data integrity. They also provide options for encryption and password protection.

Real-life Scenario

You need to send a large folder of high resolution photos via email. Using a file compression tool. you create a ZIP archive to reduce file size, making it easier and quicker to upload and send. These essential programs are essential for maintaining the efficiency, security, and reliability of your computer system.

Q.5 Explain how to install, update, and troubleshoot device drivers for hardware 09505059 components.

Ans. Long Question No. 5

Q.6 Discuss the main functions of commonly used application software, such as word 09505060 processing & spread sheet.

Ans. Long Question No. 6

Activities

Activity 1

Make a list of all the software you use on your computer or tablet. Categorize them into system software and application software. Discuss with your classmates which software you find most useful and why.

Ans. Lab Work/ Class Work/Practical Work.

Activity 2

Did You Know?

File compression tools reduce file

size to save storage space and make

file transfer faster.

Explore the task manager (Windows) or activity monitor (Mac) on your computer. Identify the different running applications and observe how much CPU and memory each application is using Discuss why the operating system's role in managing these resources is crucial for the computer's Monny III performance.