Memory Unit and Ram Usage.

Memory is the most essential element of a computing system because without it computer can't perform simple tasks. The Memory Unit is of two types which are primary memory and secondary memory.

PRIMARY MEMORY:

Primary memory, also known as main memory, is the immediate storage used by a computer to hold data that is actively being accessed by the CPU. Both types of memory (RAM and ROM) are important for the computer, but they serve different purposes.



Classification of computer memory

RAM (Random Access Memory): RAM is volatile memory that provides temporary storage for data and instructions that the CPU needs to access quickly. The Primary Memory is volatile, that is, the content is lost when the power supply is switched off.



ROM (Read-Only Memory): ROM is non-volatile

memory that contains pre-programmed data and instructions that are permanently stored during the manufacturing process. It is called "read-only" because the data stored in ROM cannot be modified or erased by normal computer operations.ROM contains firmware or

firmware instructions that are essential for the proper functioning of the computer system, such as the BIOS (Basic Input / Output System).

SECONDARY MEMORY:

Secondary memory refers to non-volatile storage that provides long-term storage for data, even when the power is turned off. The secondary memory is used to store the data permanently. It includes various storage devices such as hard disk drives (HDDs), solid-state drives (SSDs), CDs, DVDs, USB flash drives, and more.

Hard Drives (HDDs and SSDs):

CDs, DVDs, and Blu-ray Discs:

USB Flash Drives:



How to Check RAM on Windows 10

Open the Windows Start menu, start typing **About your PC**, and click the option to open it when it appears.



In the Device Specifications section, your total RAM capacity is displayed next to Installed RAM.

Settings		- 0
G Home	About	
-		
Find a setting	> Your PC is b	eing monitored and
System	protected.	
	See details in Wi	ndows Security
Display	Device spec	ifications
中心 Sound	Device spec	incations
	HP Pavilion	Gaming Desktop 690-00xx
Notifications & actions	Device name Processor	OHSB-PC
J Focus assist		2.80GHz 2.81 GHz
	Installed RAM	16.0 GB (15.9 GB usable)
O Power & sleep	Device ID	3303C02B-B5EC-4C3A- AC84-2E23F81002D2
Storage	Product ID	00325-417-AAOEM
_	System type	64-bit operating system, x64-based processor
B Tablet	Pen and touch	No pen or touch input is available for
局 Multi-tasking		this display
	Сору	
Projecting to this PC	Poname this 0	c
X Shared experiences	kename this P	с.

How to check RAM usage on Windows 10

Once you know how to check how much total RAM your computer has, it's important to know how to find out how much RAM your computer is currently using. Here's how to check RAM speed, RAM availability, and other memory usage statistics:

- Press Ctrl + Shift + delete to launch Task Manager.
- Select the Performance tab and click Memory in the left panel.
- The Memory window lets you see your current RAM usage, check RAM speed, and view other memory hardware specifications.

Processes Performance App history	y Startup Users Details Services
CPU 4% 1.13 GHz	Memory 16.0 GB
9.6/15.8 GB (61%)	
Disk 0 (C:) SSD 2% Wi-Fi Wi-Fi S: 24.0 R: 8.0 Kbps	60 seconds 0 Memory composition
GPU 0 Intel(R) UHD Grap 2%	In use (Compressed) 9.4 GB (408 MB) Committed 11.8/18.2 GB 7.4 GB 11.8/18.2 GB 7.4 GB

Open the Processes tab to see which tasks are consuming the most RAM. To reduce current RAM usage, you can force-quit any task currently in operation by right-clicking the individual process and selecting End Task.

How to Check Storage

Open the Windows Start menu, start typing **About your PC**, and click the option to open it when it appears.

- 1. Select the Start button, and then select Settings .
- 2. Select **System > Storage**.

Settings × +			
← Settings			
A Home	Storage		
Find a setting	Local storage		
System	This PC (C) - 238 GB		
🖵 Display	70.1 G8 used 168 G8 free		
ØØ Sound	Storage sense		
Notifications & actions	Windows can automatically free up space by getting rid of files		
J Focus assist	you don't need, like temporary tiles and content in your recycle bin		
() Power & sleep			
🗇 Battery	Free up space now		
📼 Storage			
C8 Tablet mode	More storage settings		

3. More storage settings > View storage usage on other drives. Add this all.

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Luca	al storage			🔮 Give fe
٩	Local Disk (C:) - 117 GB 92.8 GB used	24.5 GB free		
-	Local Disk (D:) - 120 GB			

Another way.

If you want to find out the total hard disk space in Windows 11, 10, 8, 7 at the first sight, then, Windows built-in Disk Management should be your first choice. By opening it, you can view most info of your hard disks along with their partitions including their capacity, disk types (basic or dynamic), and file systems (NTFS or FAT32).

1. Select and right-click on "This PC" from the desktop and then, select "Manage".

2. Go to "Storage > **Disk Management**" and then, all info of your disks and partitions appears.

For example, in the screenshot below, you can check the total hard disk space under the label "Disk 0" and the capacity of each partition from C to N.

🚰 Computer Management	- 🗆 X				
File Action View Help					
🗢 🔿 💼 🛙 💼 🗩 🗙 🖓 🔒 💆 🖻					
A Computer Management (Local Volume Layout Type File System Status	Actions				
V 👔 System Tools 🔤 (C:) Simple Basic NTFS Healthy (Boot, Page File, Crash Dump, Basic Data Partit	on) Disk Management				
A Task Scheduler A Ta	More Actions				
→ Signed Folders → Disk 0 partition 9 Simple Basic RAW Healthy (Basic Data Partition)					
> Decal Users and Groups NEW VOLUME Simple Basic FAT32 Healthy (Basic Data Partition)					
> Performance Performance New Volume (D:) Simple Basic NTFS Healthy (Basic Data Partition)					
Bevice Manager New Volume (E) Simple Basic NIFS Healthy (Basic Data Partition) New Volume (M) Simple Paric NIFS Healthy (Paric Data Partition)					
Storage New Volume (WL) Simple Basic NTFS Healthy (Basic Data Partition) New Volume (WL) Simple Basic NTFS Healthy (Basic Data Partition)					
T Disk Management					
C	>				
931.50 GB 1(149.66 GE 478 / 388.57 GB 100C 100C 99 375.00 GB 5.86 G 9.77 G					
Online H Healthy (Healthy (B Hea Hea H Healthy (B Unallc Health					
Vnallocated Primary partition					

File Size finding

- Fist Download application software Open Office.EXE file. If before install any application should know the size of application.
- Download .exe file right click than click properties option new window will be open you can See open office size 134 MB. But that is not full size.

right clic	Open Run as administrator Force delate Troublehoot compatibility Test Stat State with Notepad+* State with Notepad+* State with Notepad+* Promat factory Promat factory Promat factory Process to Add to "Apache_OpenOffice_4.1.14_Win_ubl6_install_en-US:se" Compress and email. Compress and email. Protopress and email. Protopress end email. Restbar Protopress and email. Senertion ProverSO Send to Send to	Austile, OperOffice, 4.114, Win, alli, unstal, and Scere Properties N Baseline Desetin Permas Version Comparison Desetin Desetin Comparison Application (cell) Permas Version Comparison Desetin Desetin <
	Cut Copy Create shortout Delete Rename Properties	

- After installation .exe file size will be increased you can see file size in C drive location program file folder software name of the location and click properties.
- File location C:\Program Files (x86)\OpenOffice 4. Folder right click than properties option new window will be open you can See open office size 324 MB in after the installation. Below the picture
- OR Another method Desktop OpenOffice → Right click → Open file location then go back to the Open Office

