# CORE MODULE 1

## Computer Hardware

**PRACTICAL**

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| **Name** | **: -** | **Prateek Kumar** |
| **Registration No** | **: -** | **ADIT22AP00152** |
| **NSTI Name** | **: -** | **NSTI Noida** |
| **Course** | **: -** | **ADIT (IBM)** |
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| **Module** | **: -** | **Core Module 1** |
| **Practical** | **: -** | **Computer Hardware** |
| **Requirements/tools** | **: -** | |

**i) Hardware: -**

1. **Working PC with Hard disk installed**

**ii) Software: -**

1. **Disk Cleanup**
2. **Defragmentation Tool**

**Question 2).** Perform Disk Defragmentation & Disk cleanup for all the drives, you have on your computer.

### Solution: -

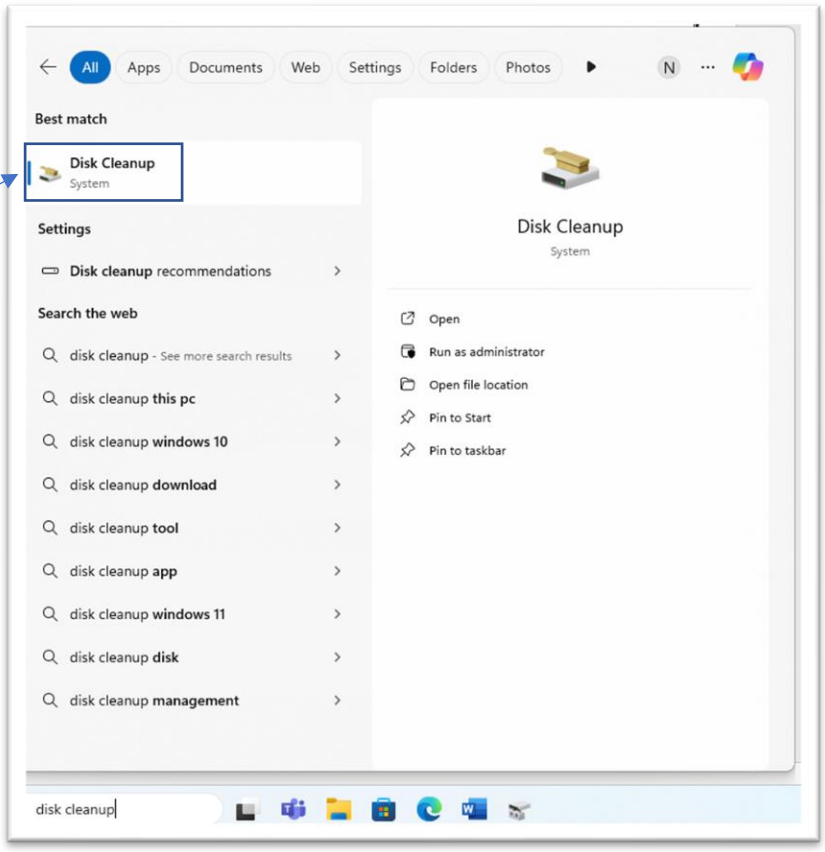
To perform Disk Defragmentation and Disk Cleanup on all drives, these are the steps we can follow:

**i) Disk Cleanup:**

This tool helps remove unnecessary files (like temporary files, system cache, and Recycle Bin contents) to free up space on your drives.

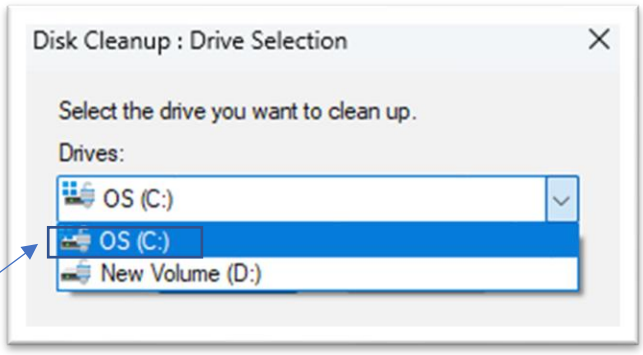
**1). Open Disk Cleanup:**

Press **Windows Key + S** or Press on the **Search icon**, type "**Disk Cleanup**" and select it from the list.




**2. Select the Drive:**

A window will appear asking you to select the drive you want to clean up (typically `C:` for the system drive). Select the drive and click **“OK”.**




**3. Choose Files to Delete:**

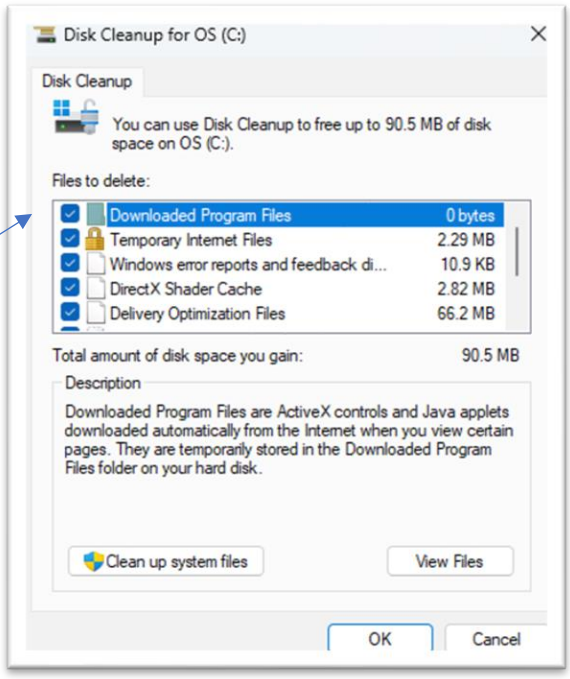
Disk Cleanup will scan the selected drive and show a list of file types that can be deleted. Common options include:

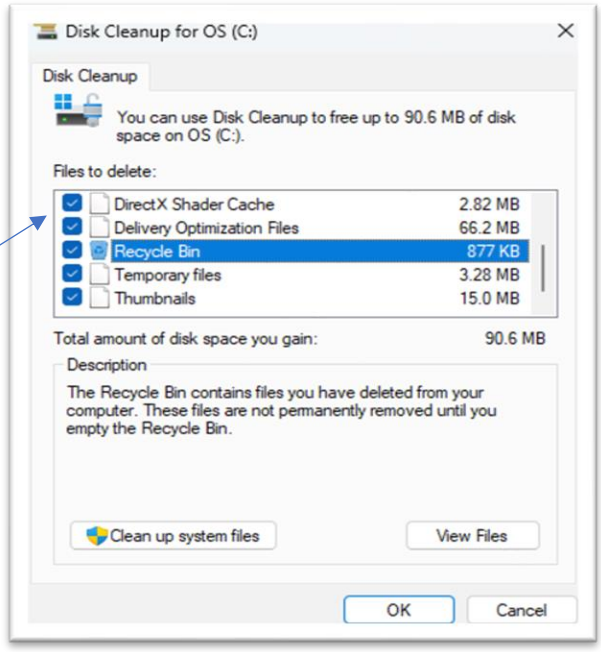
Temporary files

Recycle Bin contents

System cache

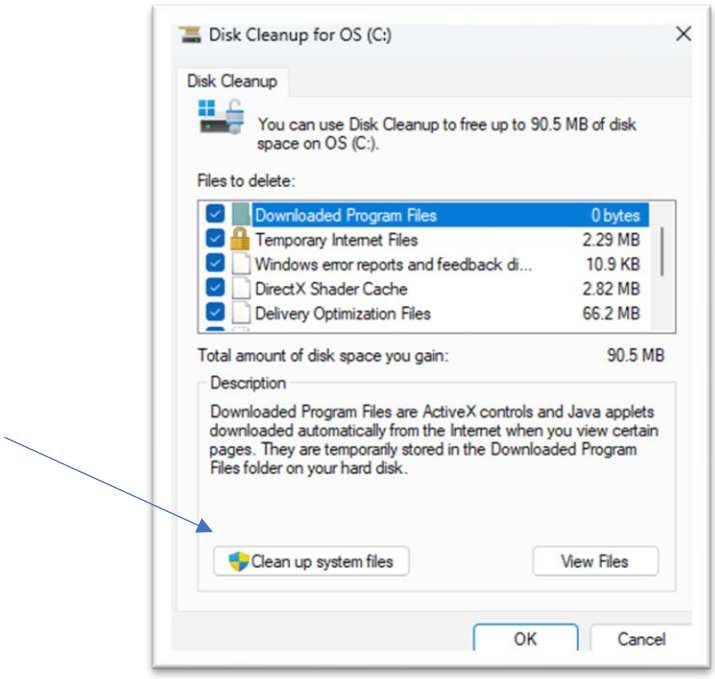
Check the boxes next to the file types you want to delete and click “OK”.



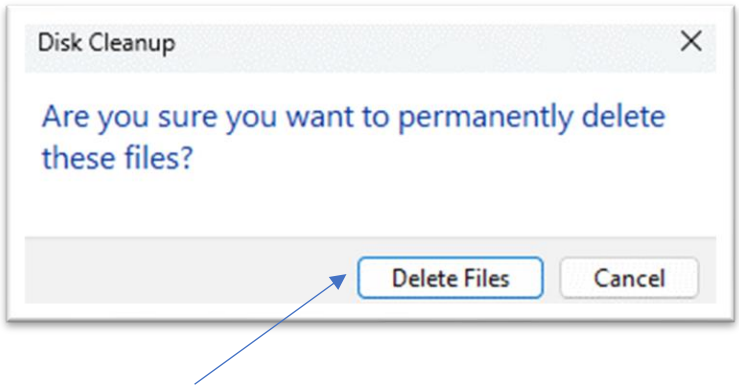

**4. Clean up System Files (optional):**

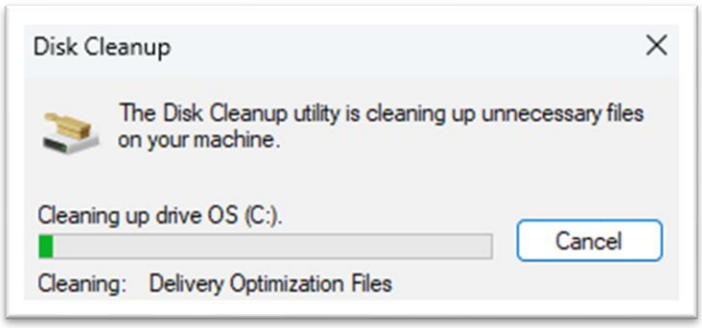
You can also click Clean up system files to remove unnecessary system files like old Windows installations, which may require administrator permission.




**5. Confirm Deletion:**

Click Delete Files when prompted to confirm that you want to permanently remove the selected files.



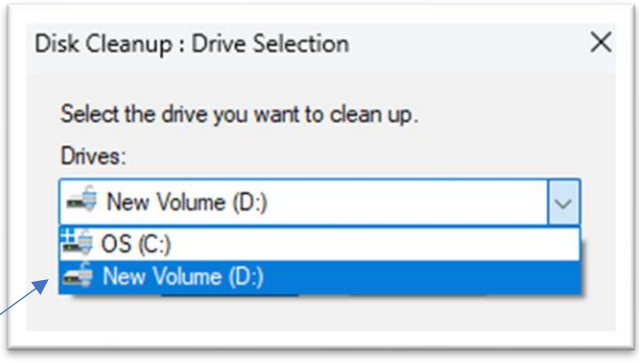




Now Our C drive is cleaned.

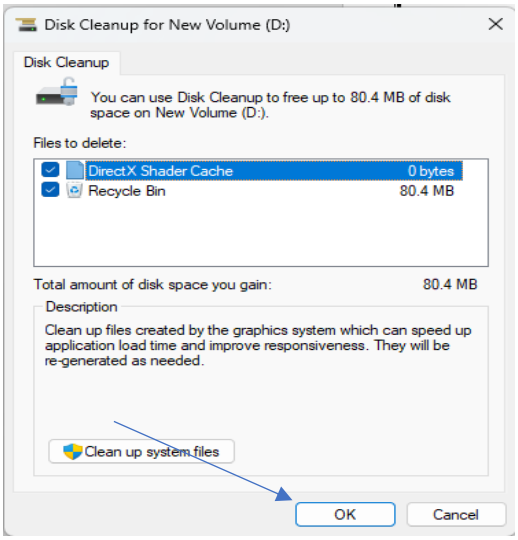
**6. Repeat for Other Drives:**

Now let us repeat for D drive

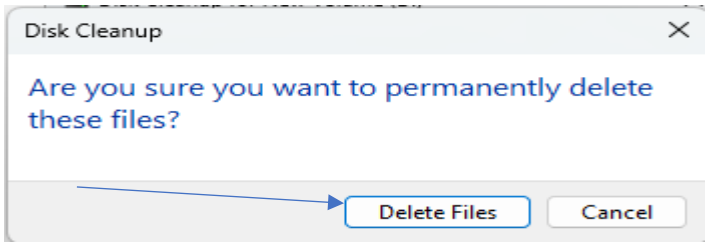
This time select D drive in disk Cleanup

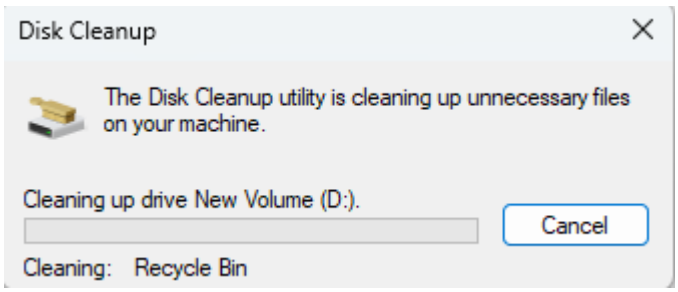



**7. Now, Select the files we want to clean and click on ok**



**8. Again, Click Delete Files when prompted to confirm that you want to permanently remove the selected files**




Now all the drives in our system are Cleaned.

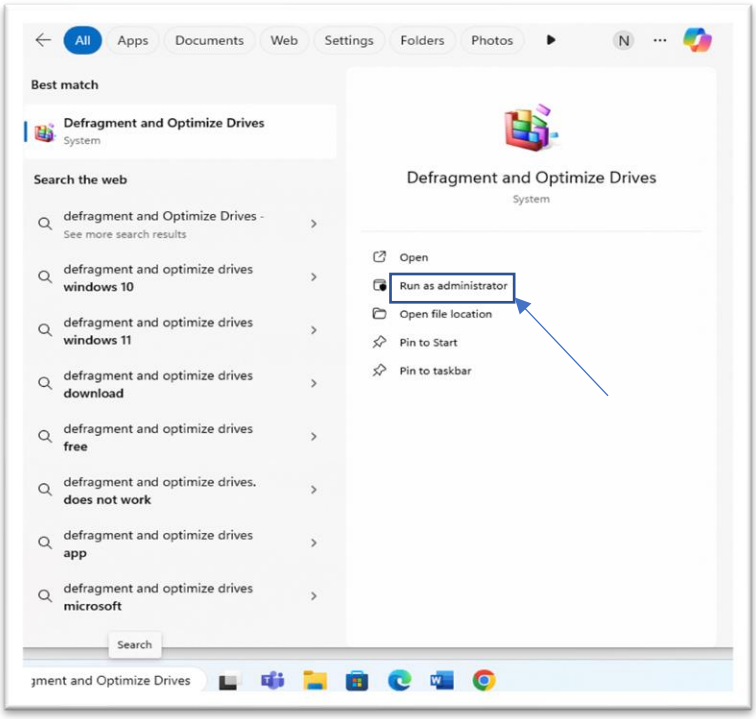
**ii). Disk Defragmentation:**

This process rearranges fragmented data so your drives can work more efficiently. It's more relevant for hard disk drives (HDDs) and not needed for solid-state drives (SSDs).

Steps:

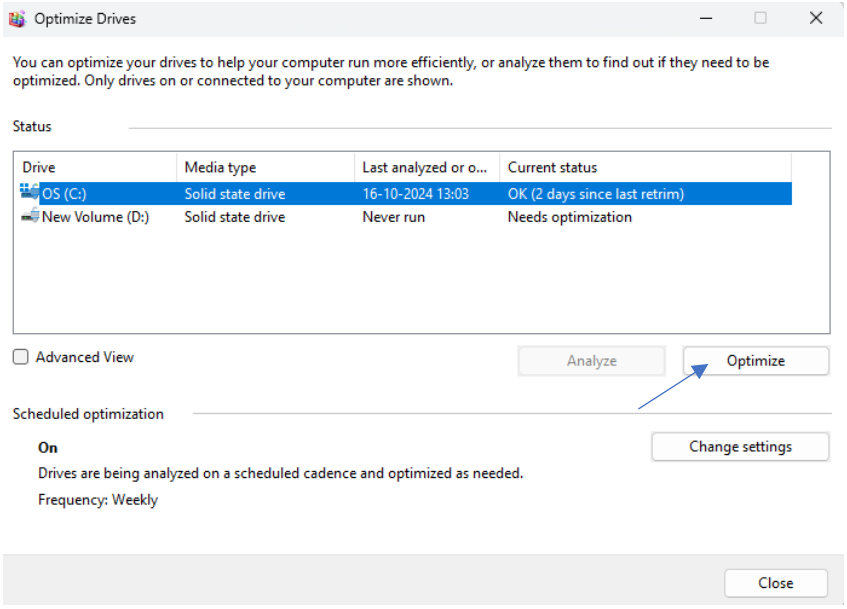
**1. Open Defragmentation Tool:**

Press Windows Key + S or click on search icon, type Defragment and Optimize Drives and open it as administrator.



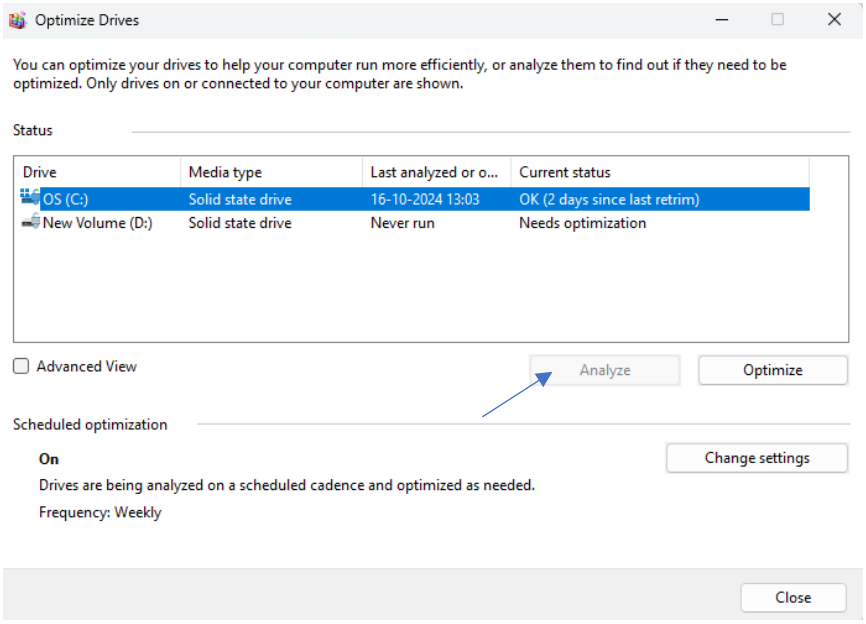
**2. Select the Drive:**

The tool will show a list of all drives. Select the drive you want to defragment.



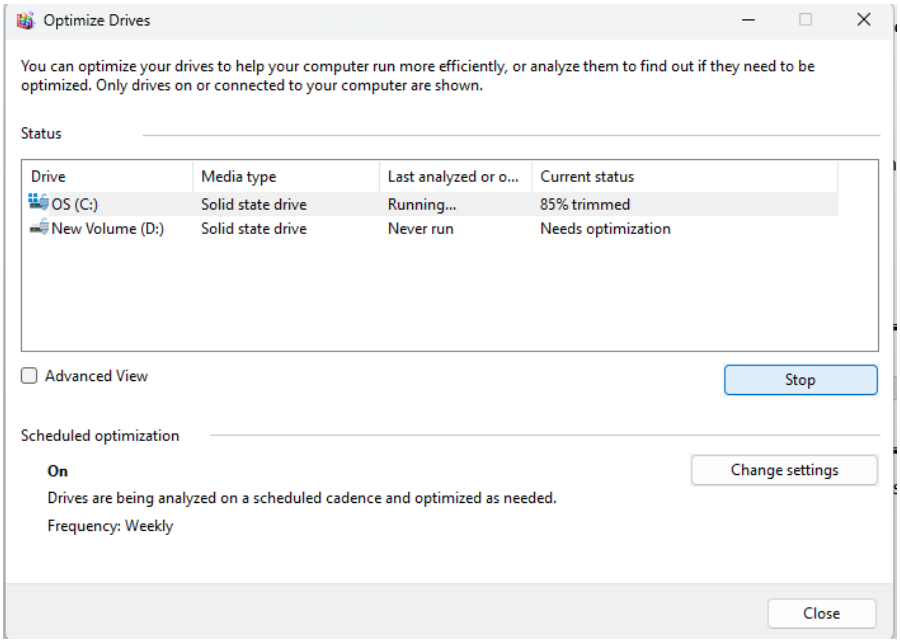

**3. Analyze the Drive (Optional):**

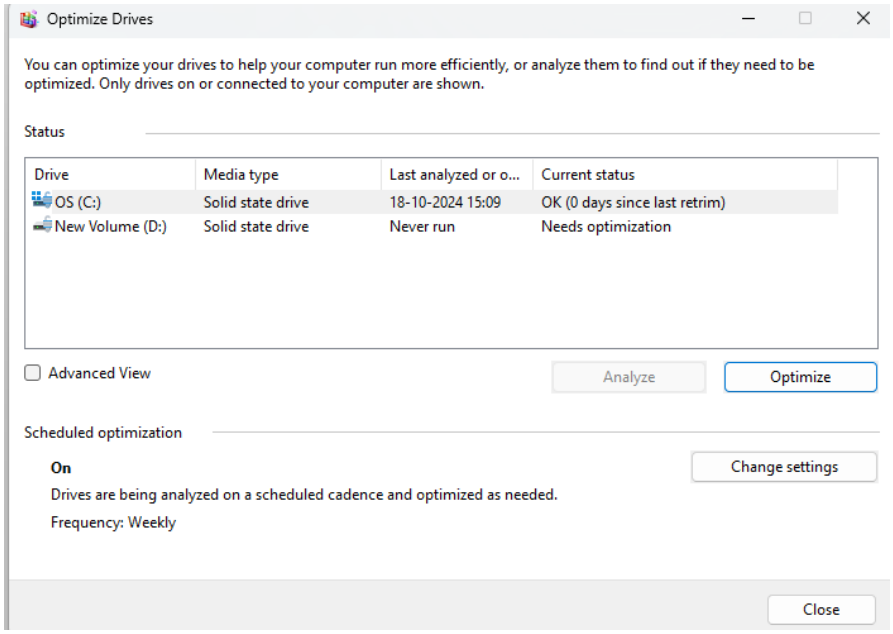
You can click Analyze to check if the drive needs defragmenting. This is optional, but it helps determine if the drive is fragmented enough to require defragmentation.




**4. Defragment the Drive:**

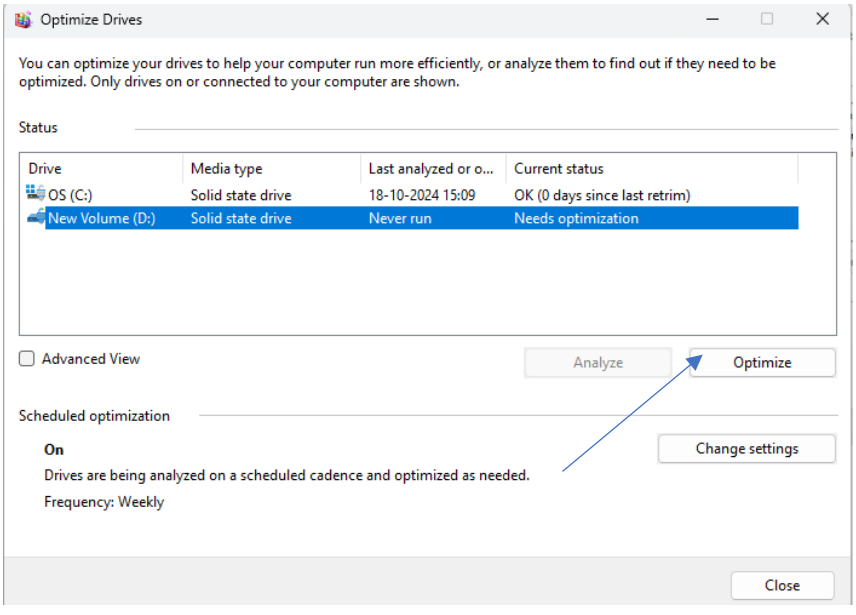
Click Optimize to start the defragmentation process for the selected drive.



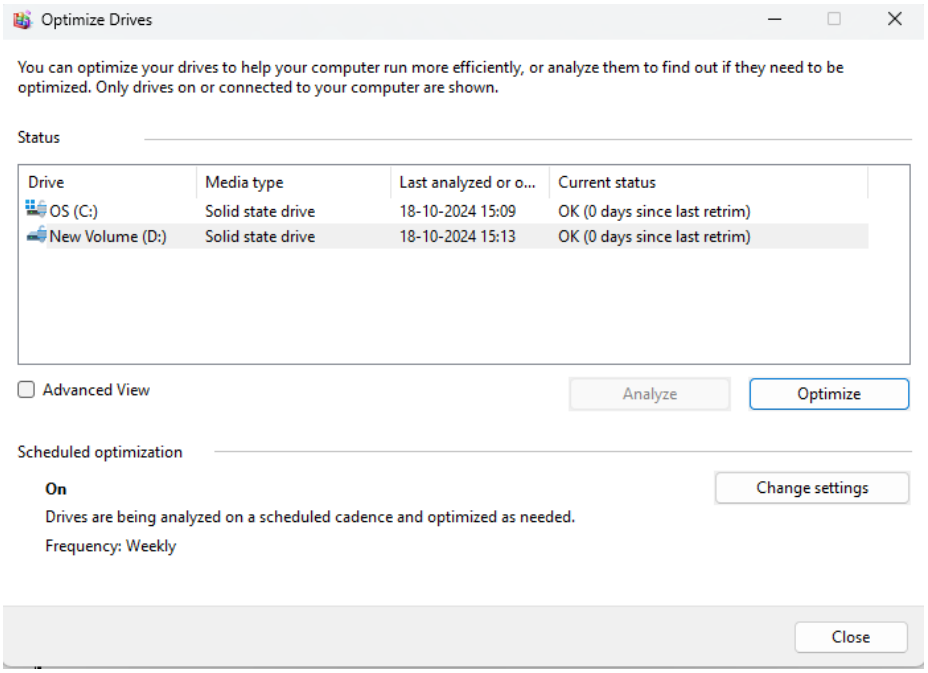




**5. Repeat for Other Drives:**

Now let us Repeat the process for other drives



**Now click on optimize**




All the Drives in our pc are successfully Defragmented