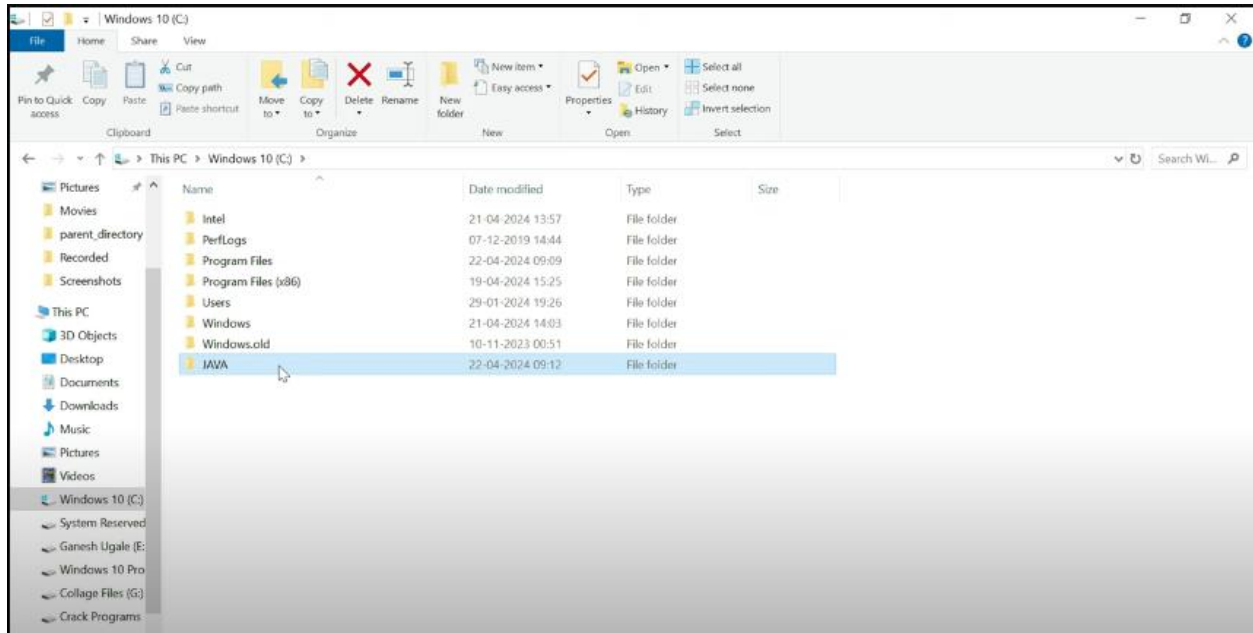
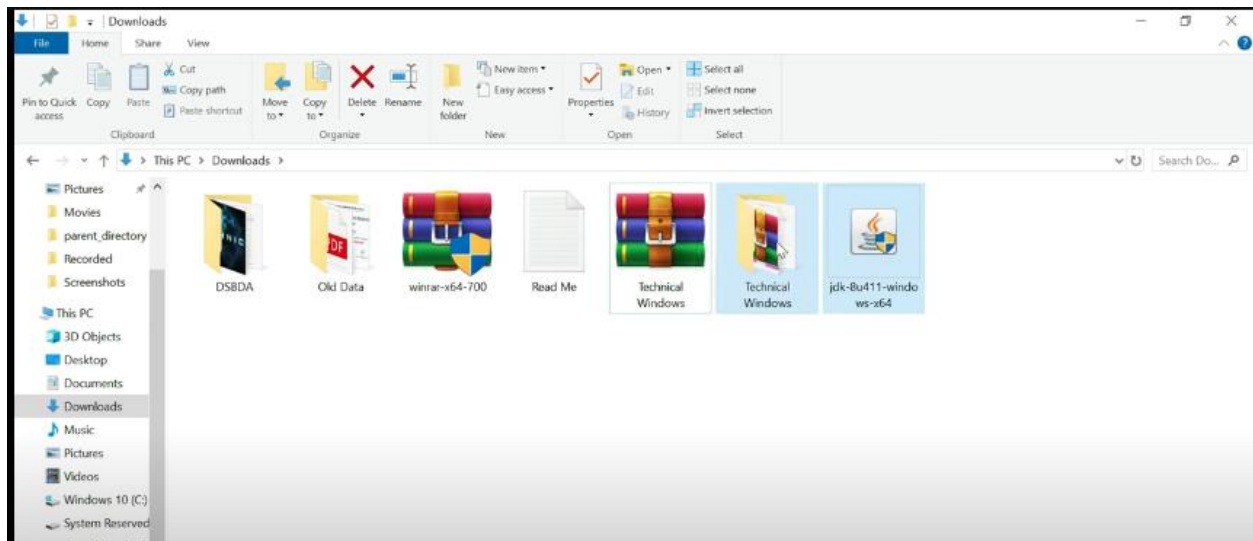


Video url: <https://www.youtube.com/watch?v=Dp2-dAftD1Q&t=558s>

1. Download files from <https://drive.google.com/drive/folders/1xf9EBHozaYgD4rrMYjgaFMkA-qyrAXZ9>
2. unzip technical windows file
3. create java folder in c drive

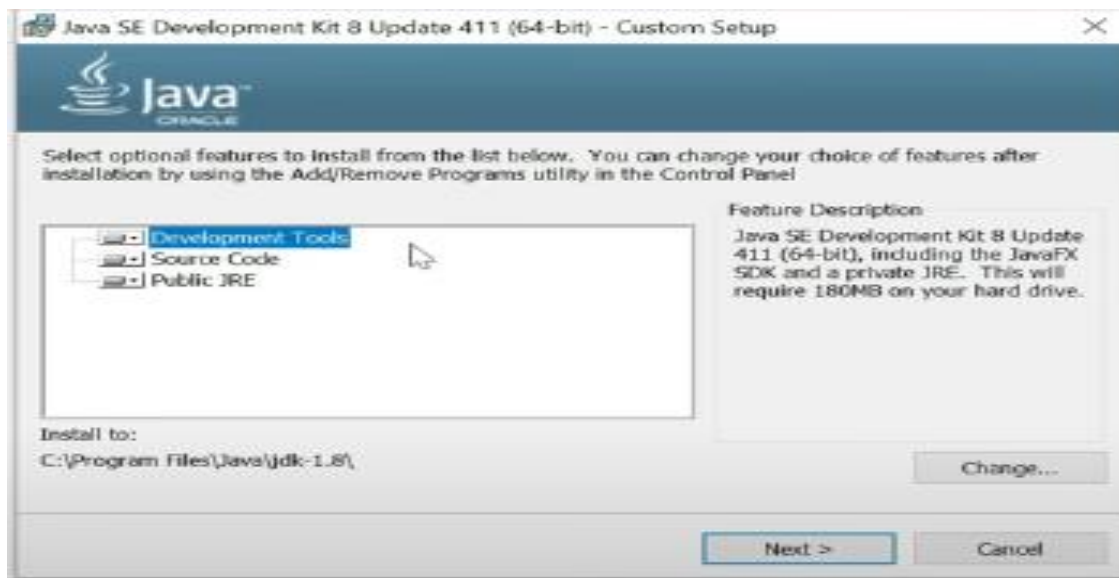


4. install Java from extracted files



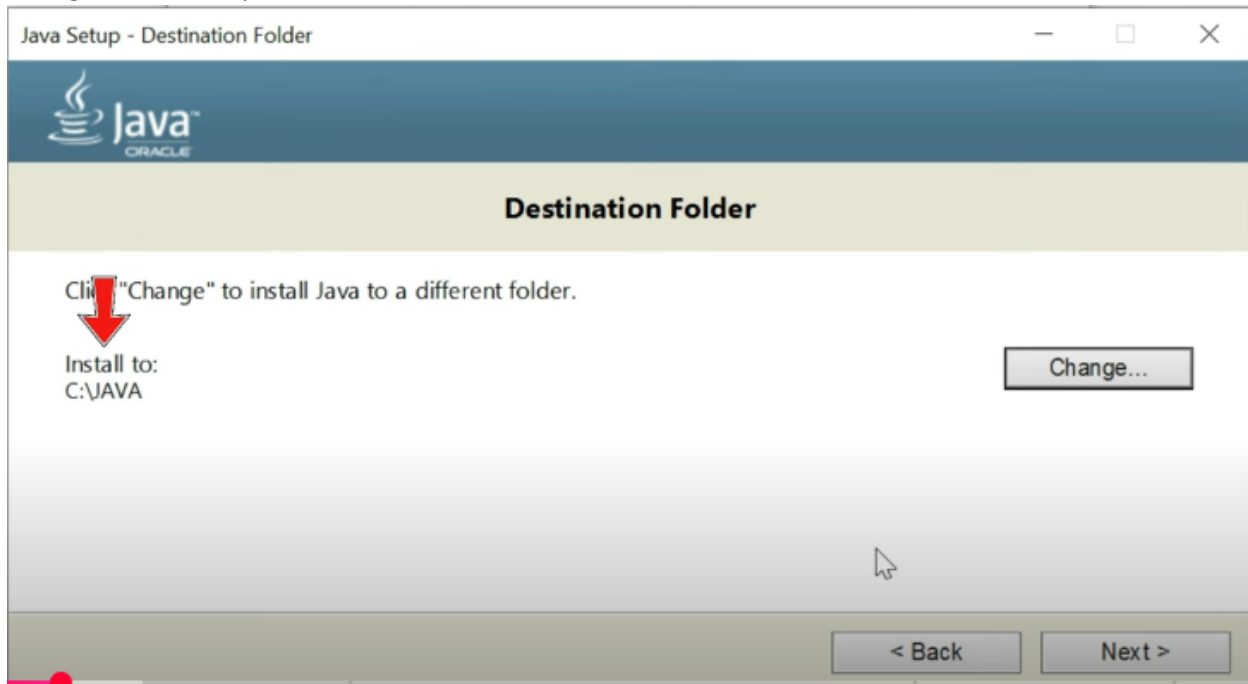


Click on next

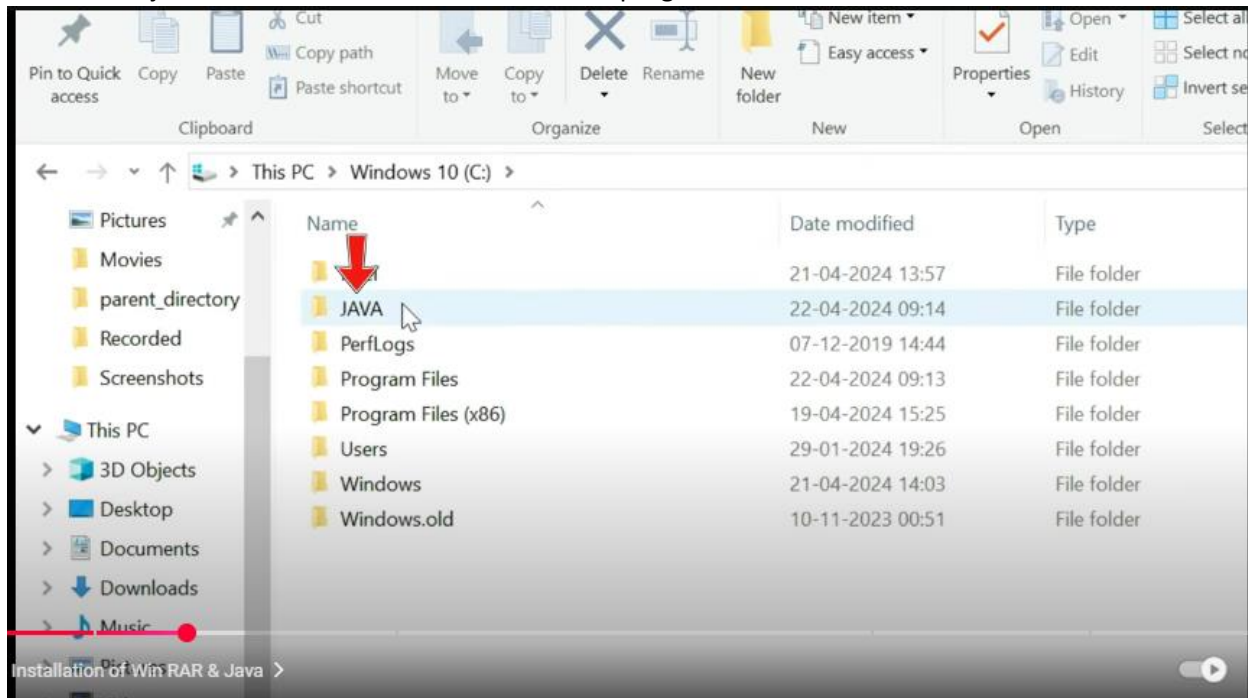


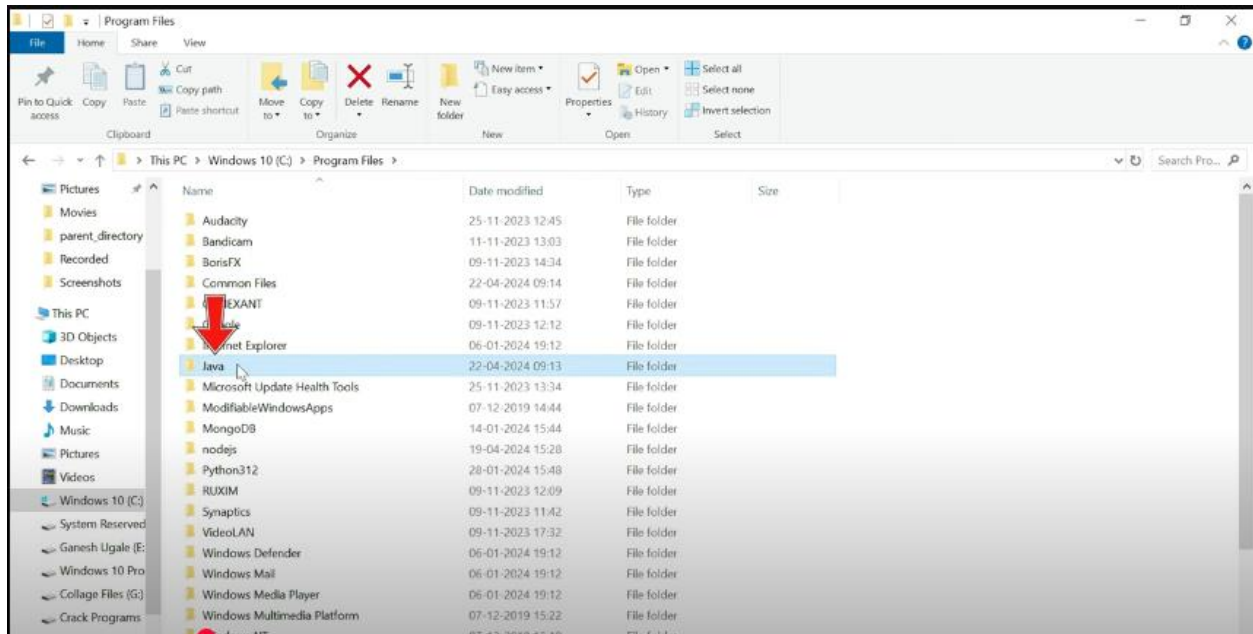
Click on next

Change installation path to C:\JAVA

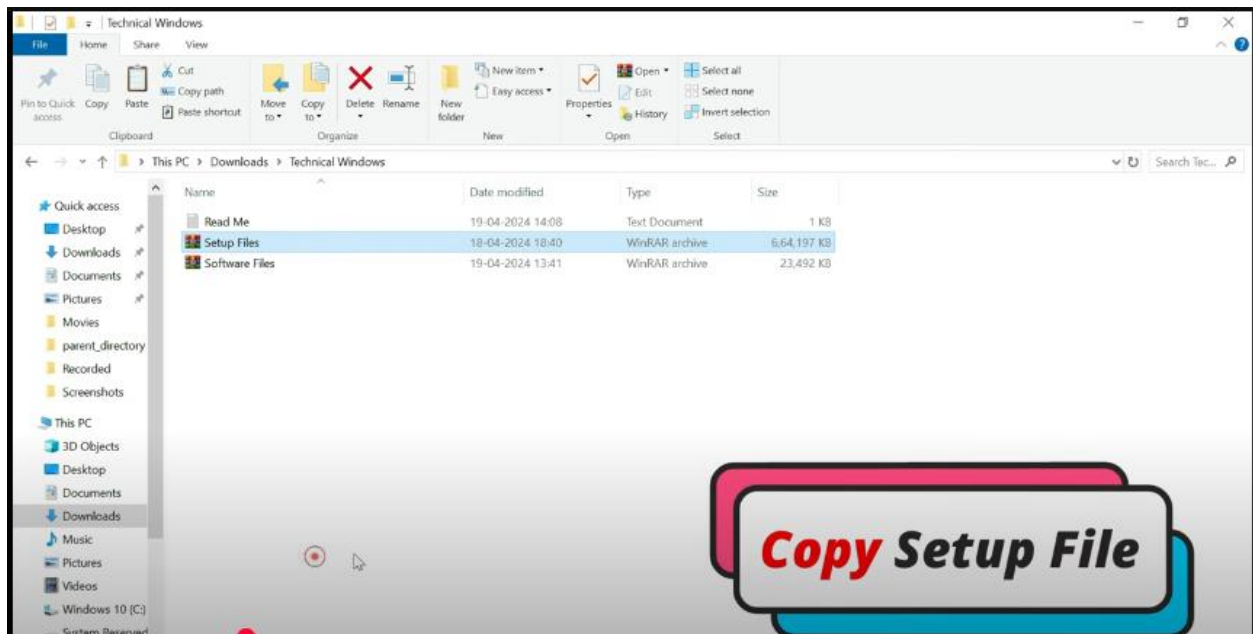


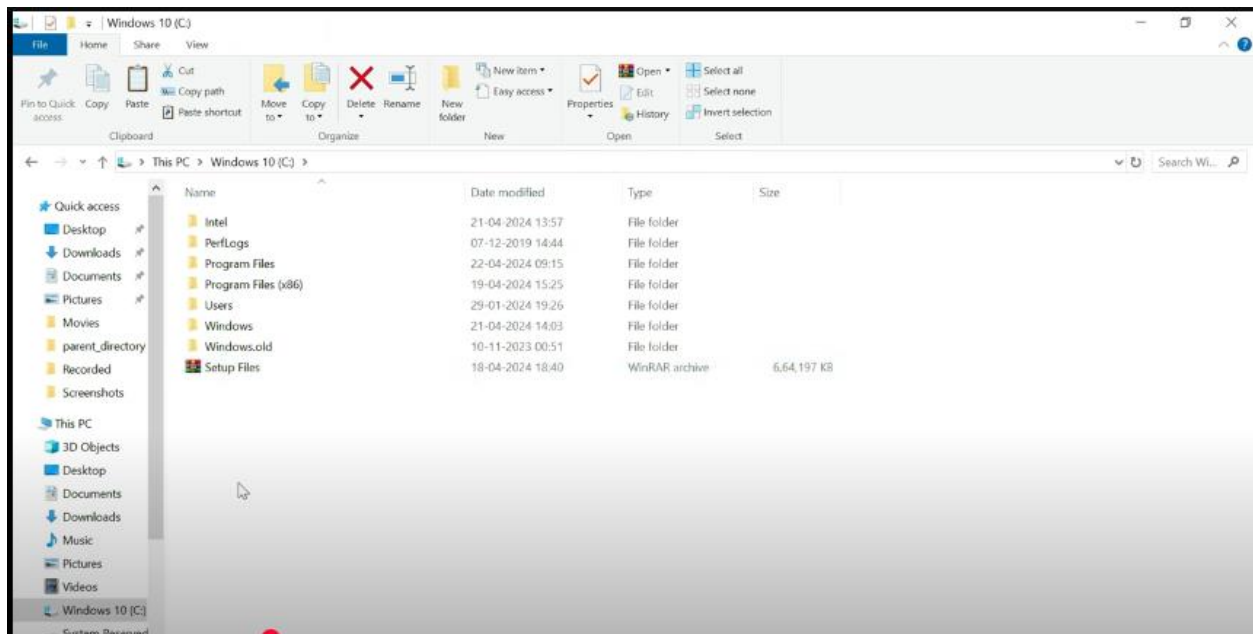
Now delete java folder from c drive as well as from program files





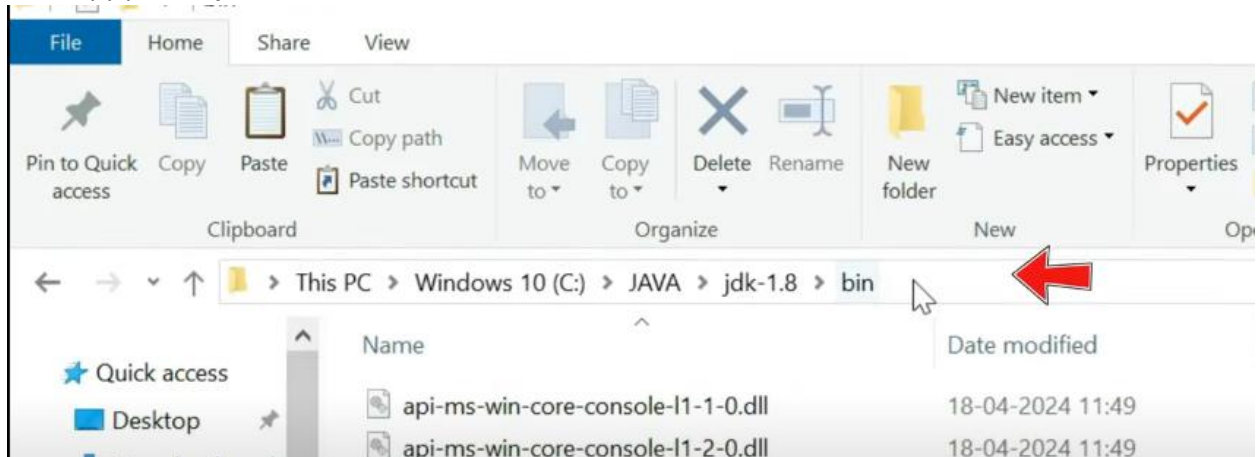
Now copy setup files zip file to c drive





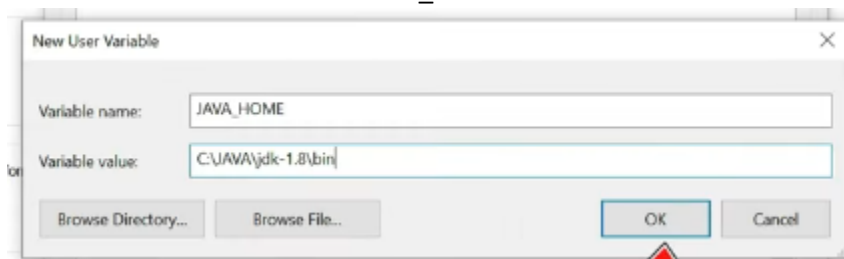
Now, Unzip setup files

And copy path of jdk bin

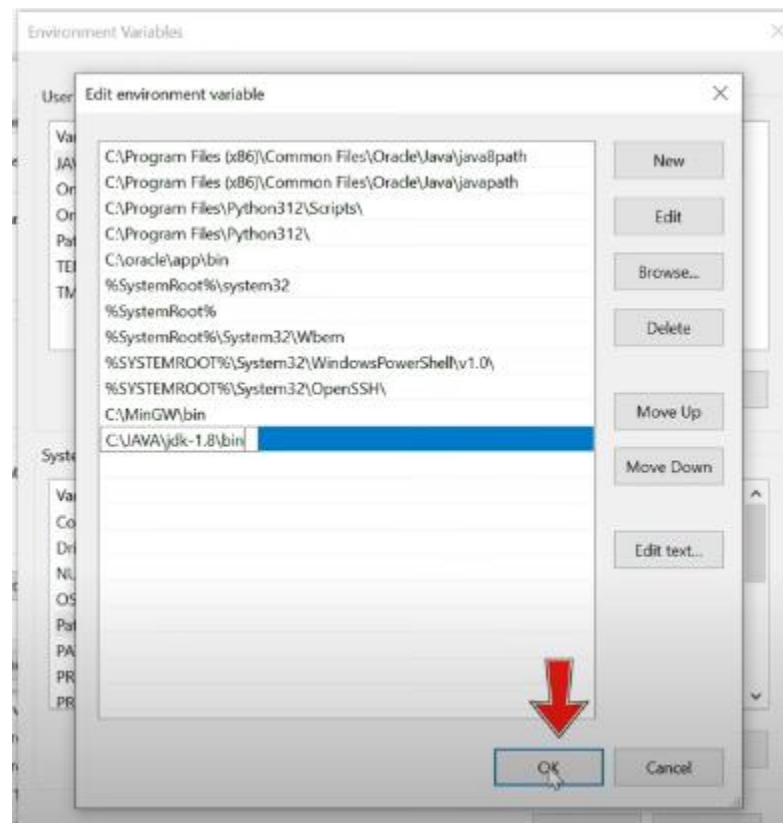
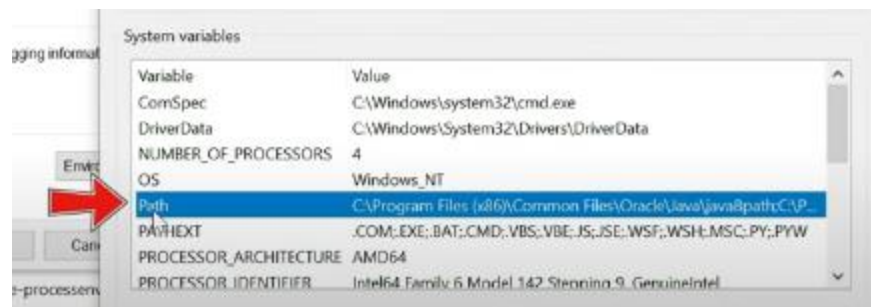


Add it in environment variable in User variable

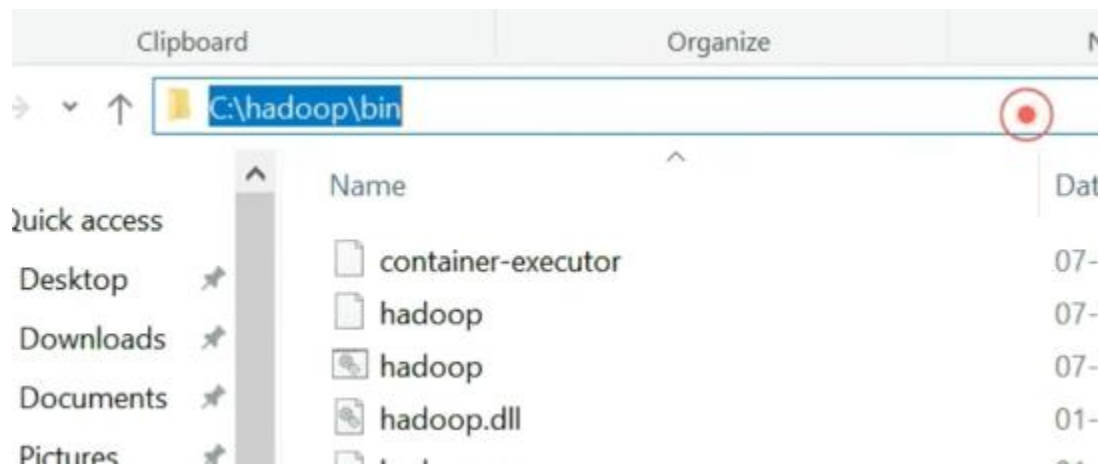
create a new variable named JAVA_HOME



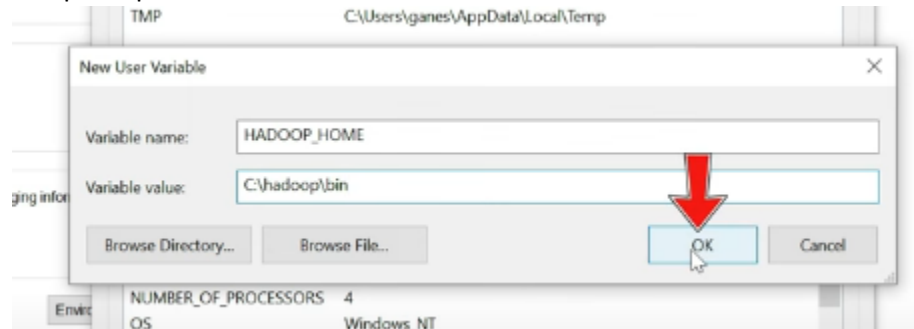
Now add path in System variable



Copy Hadoop bin path

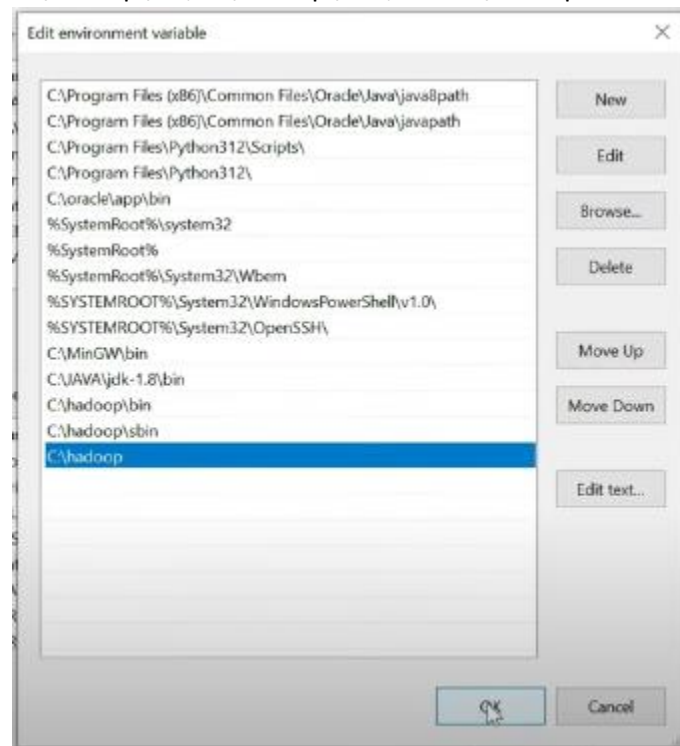


Now again create new variable as HADOOP_HOME and paste path



Now in system path variable paste below 3 paths

C:\hadoop\bin, C:\hadoop\sbin, and C:\hadoop



Now check version in cmd

```
C:\Users\ganes>java -version
java version "1.8.0_411"
Java(TM) SE Runtime Environment (build 1.8.0_411-b09)
Java HotSpot(TM) 64-Bit Server VM (build 25.411-b09, mixed mode)

C:\Users\ganes>hadoop version
Hadoop 3.2.4
Source code repository Unknown -r 7e5d9983b388e372fe640f21f048f2f2ae6e9eba
Compiled by ubuntu on 2022-07-12T11:58Z
Compiled with protoc 2.5.0
From source with checksum ee031c16fe785bbb35252c749418712
This command was run using /C:/hadoop/share/hadoop/common/hadoop-common-3.2.4.jar
```

Now extract software files

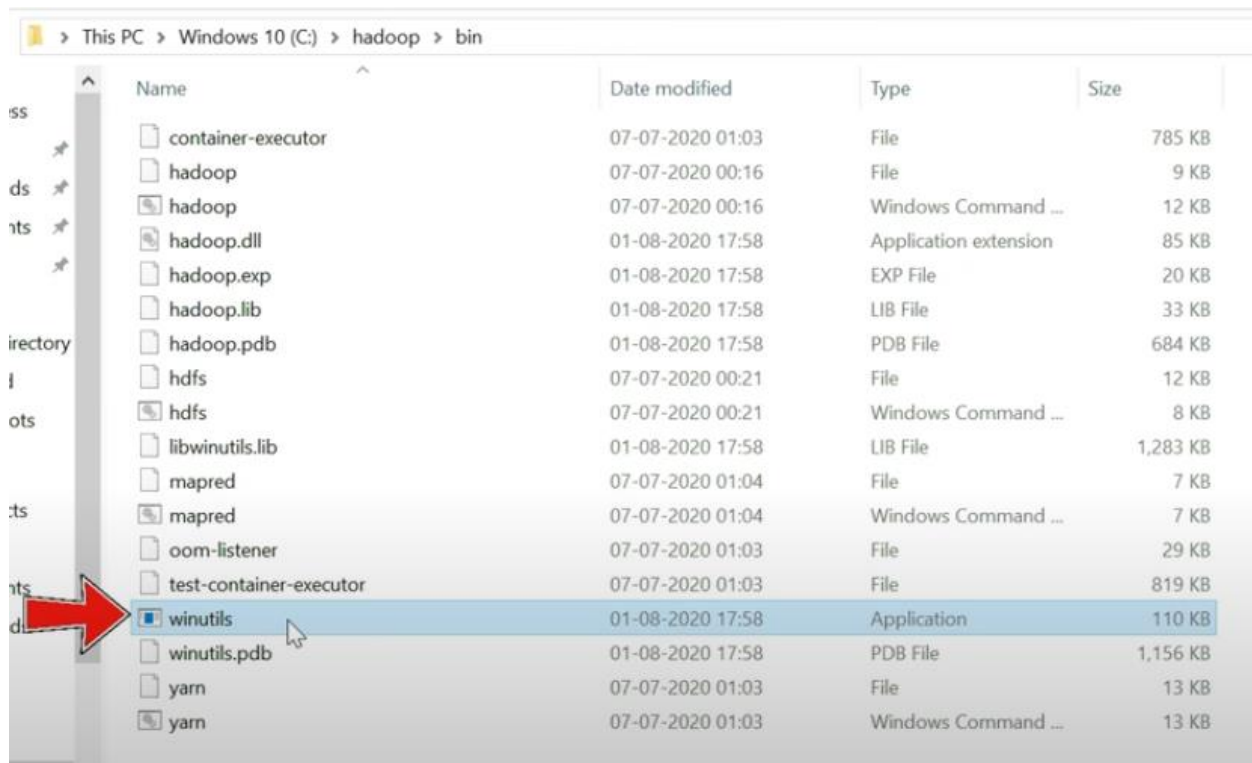
Name	Date modified	Type
msvcr120	18-04-2024 19:29	WinRAR ZIP archive
Read Me	19-04-2024 14:08	Text Document
Setup Files	18-04-2024 18:40	WinRAR archive
Software Files	19-04-2024 13:41	WinRAR archive
VC_redist.x64	18-04-2024 15:33	Application

Install VC_redist.

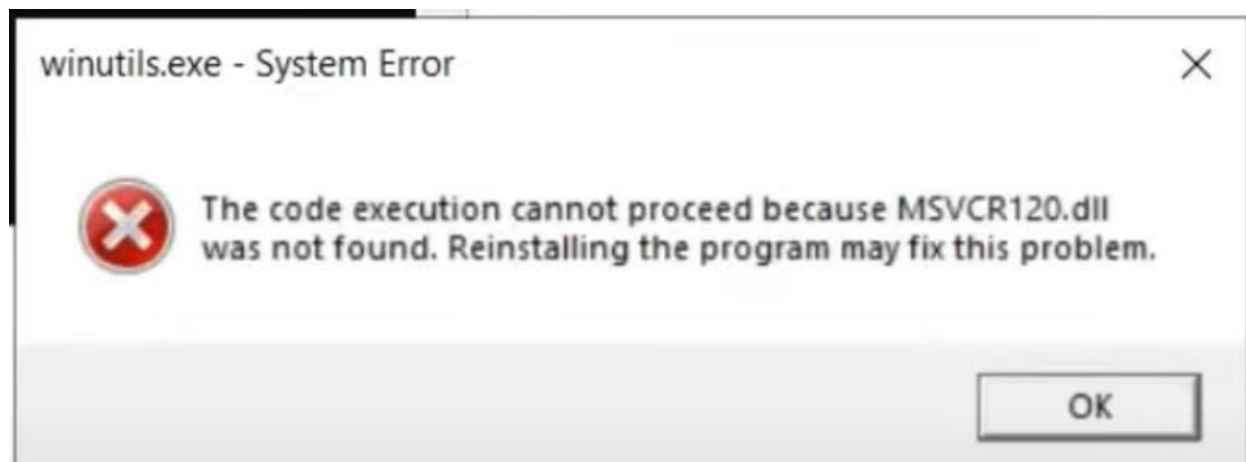


If you get error in installation then Search in apps for Microsoft Visual C++ and uninstall it and then again try

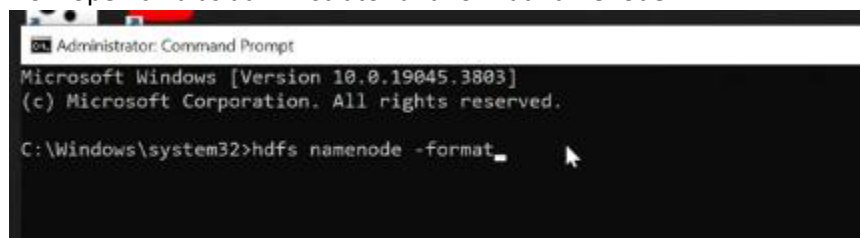
Now go in bin of Hadoop and run winutils application file



And if it closes instantly there is no error and if it shows missing files refer the video to install required dll files



Now open cmd as administrator and format namenode



And now go to Hadoop/sbin folder and type following commands in the following order.

```
C:\Windows\system32>cd \

C:\>cd hadoop

C:\hadoop>cd sbin

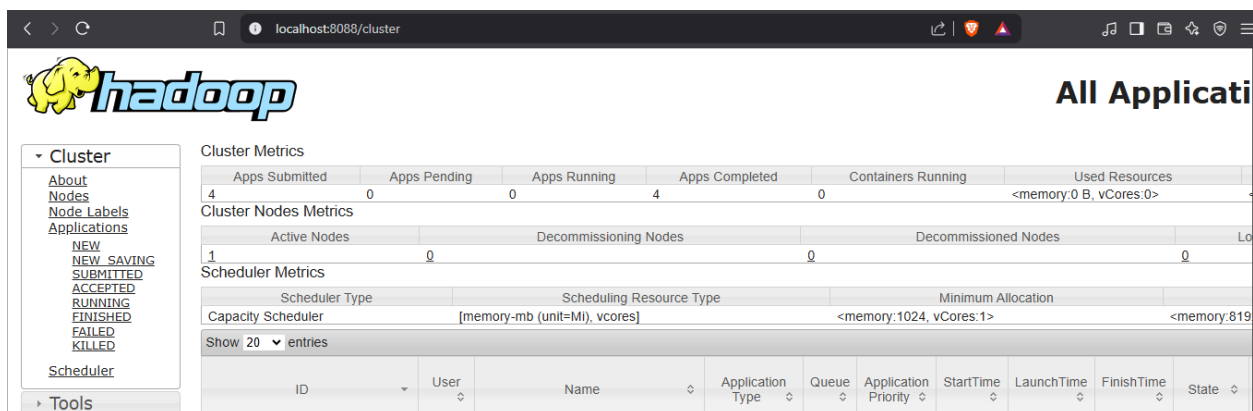
C:\hadoop\sbin>start-dfs.cmd

C:\hadoop\sbin>jps
13632 NameNode
6448 DataNode
12360 Jps

C:\hadoop\sbin>start-yarn.cmd
starting yarn daemons

C:\hadoop\sbin>jps
13632 NameNode
2496 ResourceManager
6448 DataNode
3604 NodeManager
16120 Jps
```

To check in another way whether Hadoop is running or not go to localhost:8088 and localhost:9870



The screenshot displays the Hadoop web interface at localhost:8088/cluster. The interface includes a sidebar with navigation links: Cluster, About, Nodes, Node Labels, Applications, Scheduler, and Tools. The main content area shows the following metrics:

- Cluster Metrics:** Apps Submitted: 4, Apps Pending: 0, Apps Running: 0, Apps Completed: 4, Containers Running: 0, Used Resources: <memory:0 B, vCores:0>
- Cluster Nodes Metrics:** Active Nodes: 1, Decommissioning Nodes: 0, Decommissioned Nodes: 0
- Scheduler Metrics:** Scheduler Type: Capacity Scheduler, Scheduling Resource Type: [memory-mb (unit=Mi), vcores], Minimum Allocation: <memory:1024, vCores:1>, <memory:8192>

The Applications table is shown with the following columns: ID, User, Name, Application Type, Queue, Application Priority, StartTime, LaunchTime, FinishTime, and State. The table is currently empty.

Overview 'localhost:9000' (active)

Started:	Mon Mar 24 12:29:27 +0530 2025
Version:	3.2.4, r7e5d9983b388e372fe640f21f048f2f2ae6e9eba
Compiled:	Tue Jul 12 17:28:00 +0530 2022 by ubuntu from branch-3.2.4
Cluster ID:	CID-17917d97-a9bb-4236-9bc0-d1f6b95d137e
Block Pool ID:	BP-1256016277-192.168.221.135-1742578954212

Summary

Security is off.

Safemode is off.

112 files and directories, 87 blocks (87 replicated blocks, 0 erasure coded block groups) = 199 total filesystem object(s).

Heap Memory used 109.66 MB of 231 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 59.91 MB of 61.34 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Activate Windows

Go to Settings to activate Windows.