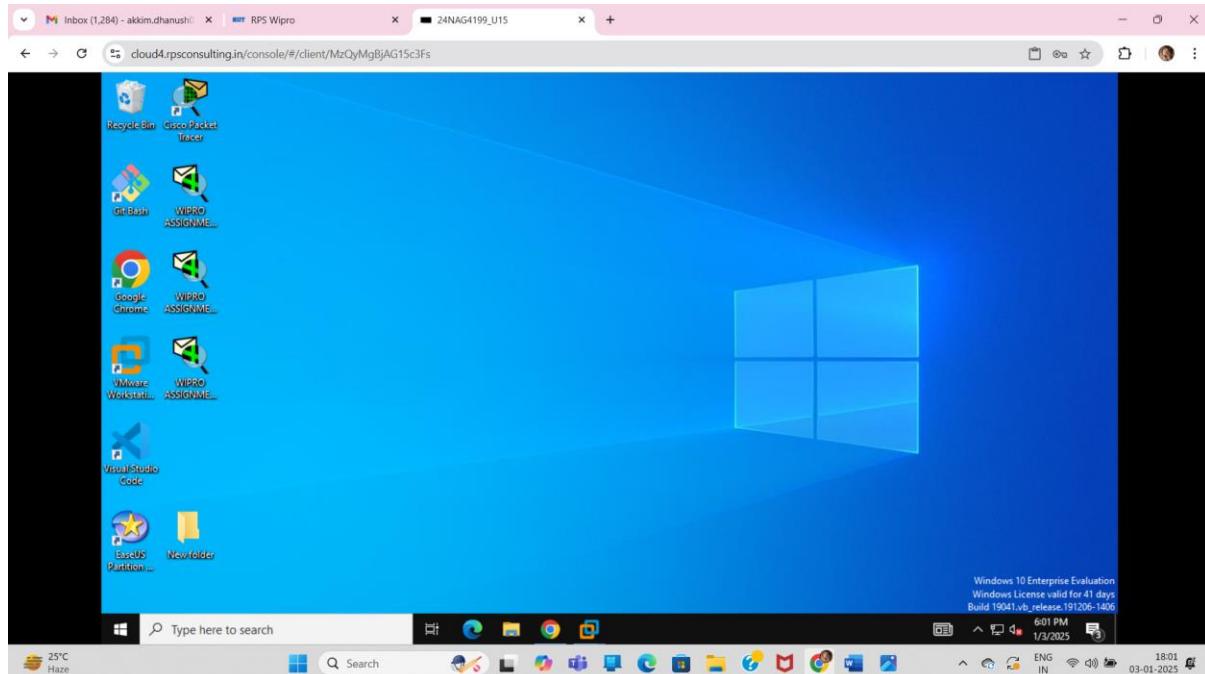


Q: HOW TO INSTALL THE WINDOW SEREVR AND ADD THE 3 HARDWARES ,CREATE VOLUMES OF ALL THE TYPES USING VM WARE IN VIRTUAL MACHINE?

ANSWER:

STEP -1: GO TO THE VIRTUAL MACHINE,

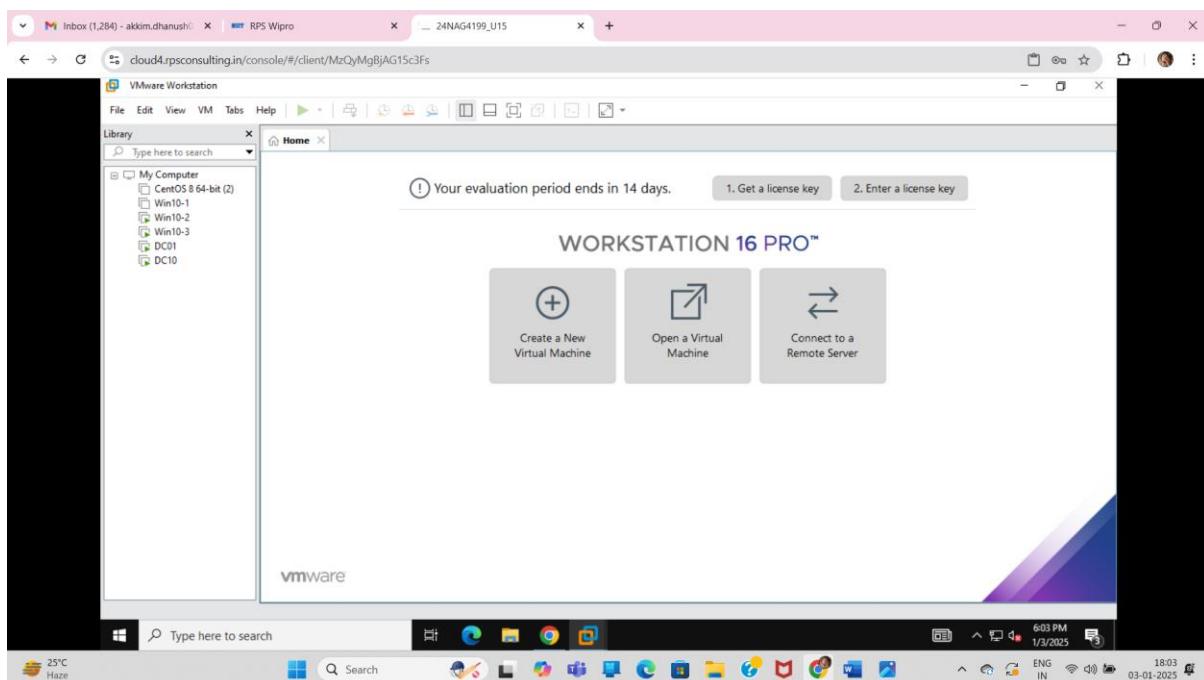


AND CLICK ON VM WARE APPLICATION.

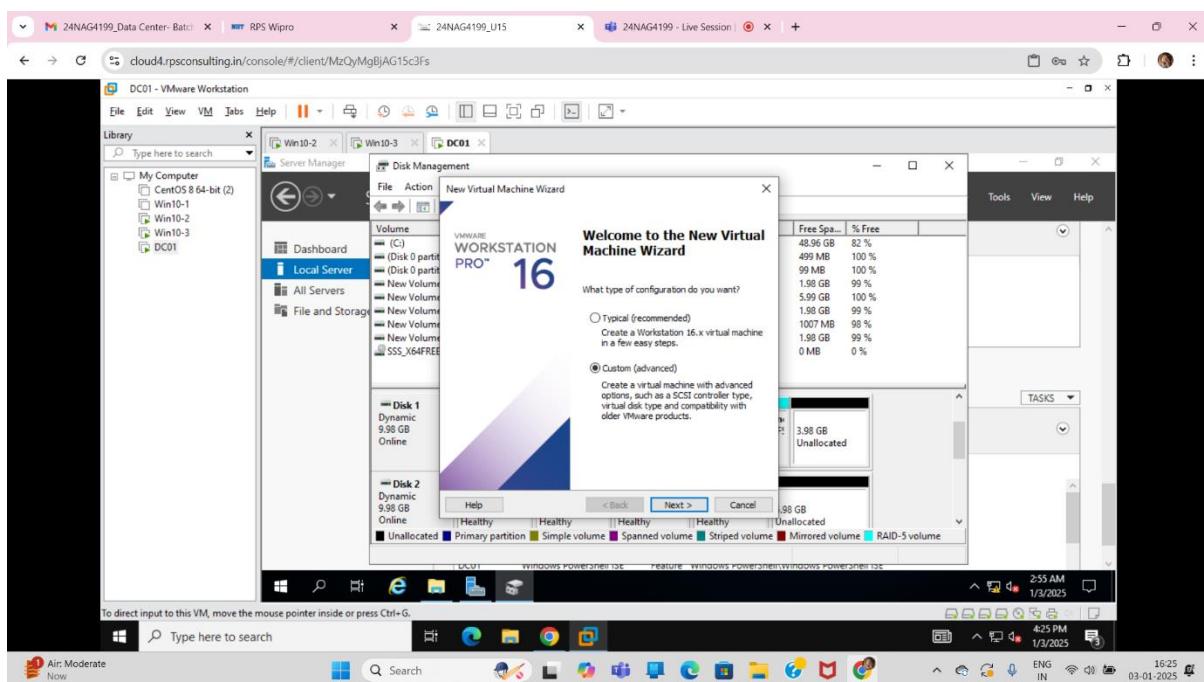


STEP – 2: BY DEFAULT IT GO TO THE HOME PAGE, IN THAT CLICK ON CREATE A NEW PROJECT.

WIPRO ASSIGNMENT - 6



IT DISPLAYS A POP UP AS WELCOME TO THE NEW VIRTUAL MACHINE WIZARD,

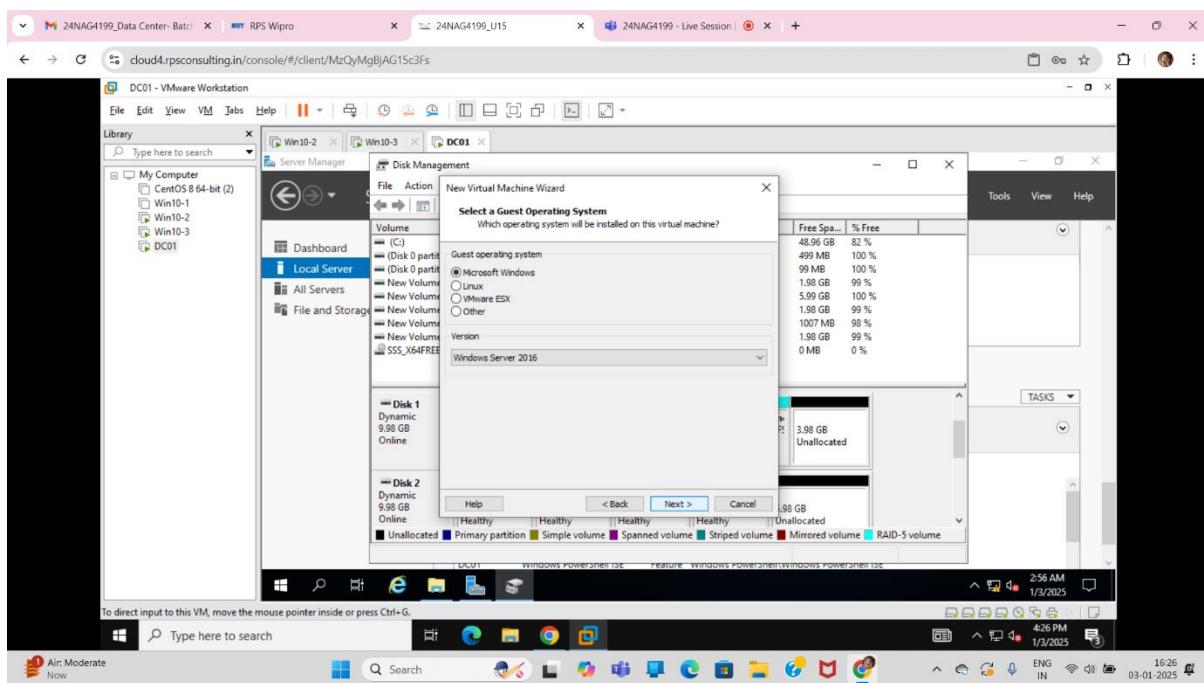


CLICK ON NEXT, NOW SELECT THE MICROSOFT WINDOWS OPTION.

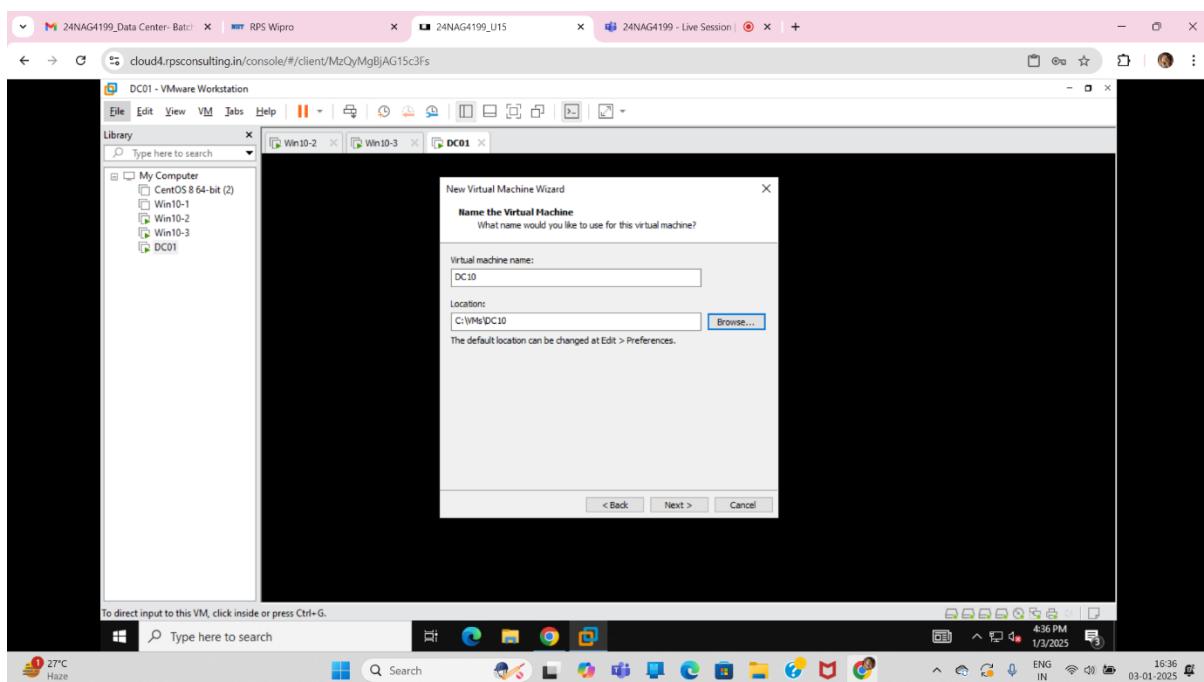
NOW WE HAVE TO SELECT THE VERSION AS WINDOWS SERVER 2016.

CLICK NEXT,

WIPRO ASSIGNMENT - 6



CLICK NEXT



STEP -3: NOW GIVE THE VIRTUAL MACHINE NAME AS WE REQUIRED AS DC10 AND

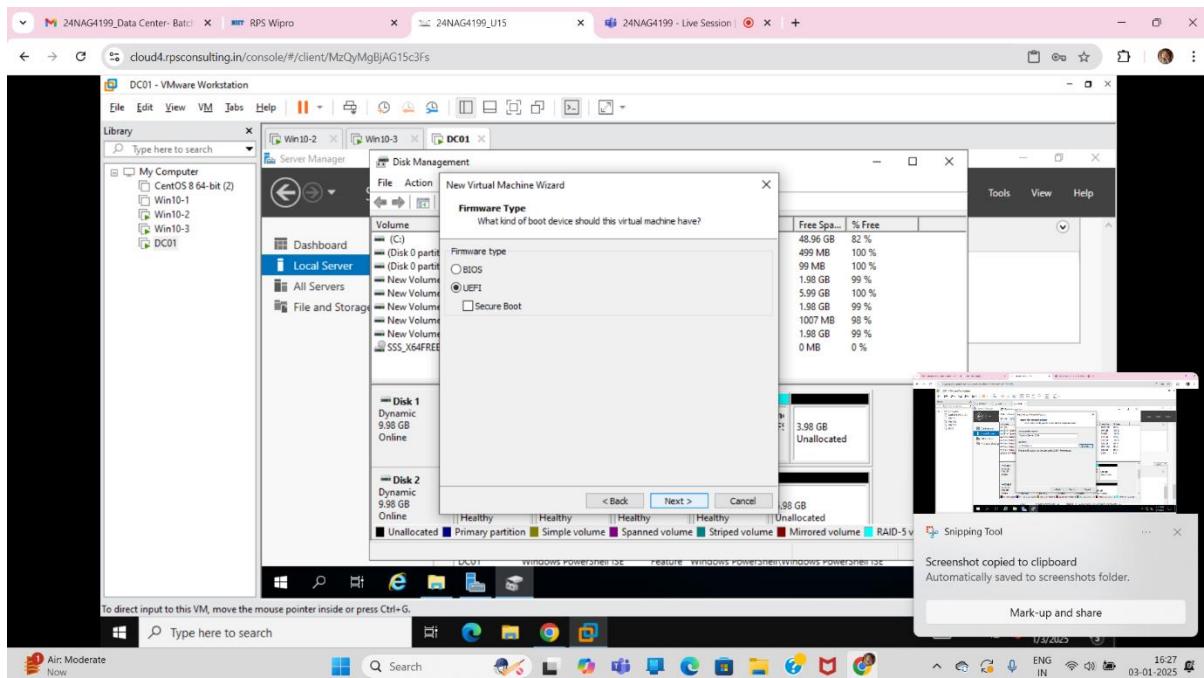
BROWSE

LOCATION IN LOCAL DISK C →VMS→DC10 FOLDER THAT WHICH WE ARE CREATED.

CLICK ON NEXT.

WIPRO ASSIGNMENT - 6

NOW SELECT THE BY DEFAULT OPTION AND CLICK NEXT.

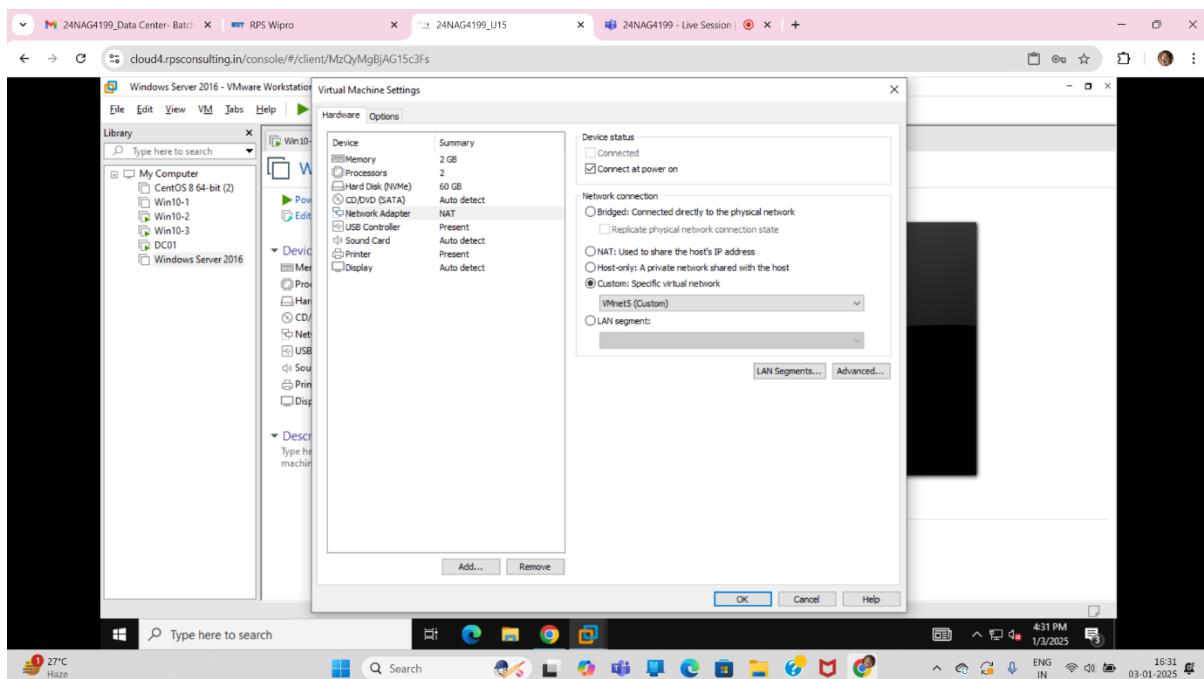


WE CAN SEE THAT

STEP -4: THE VIRTUAL MACHINE,NOW CLICK ON THE RIGHT BUTTON OF THE DC10.

IT DISPLAYS THIS OPTIONS AS SHOWN BELOW.

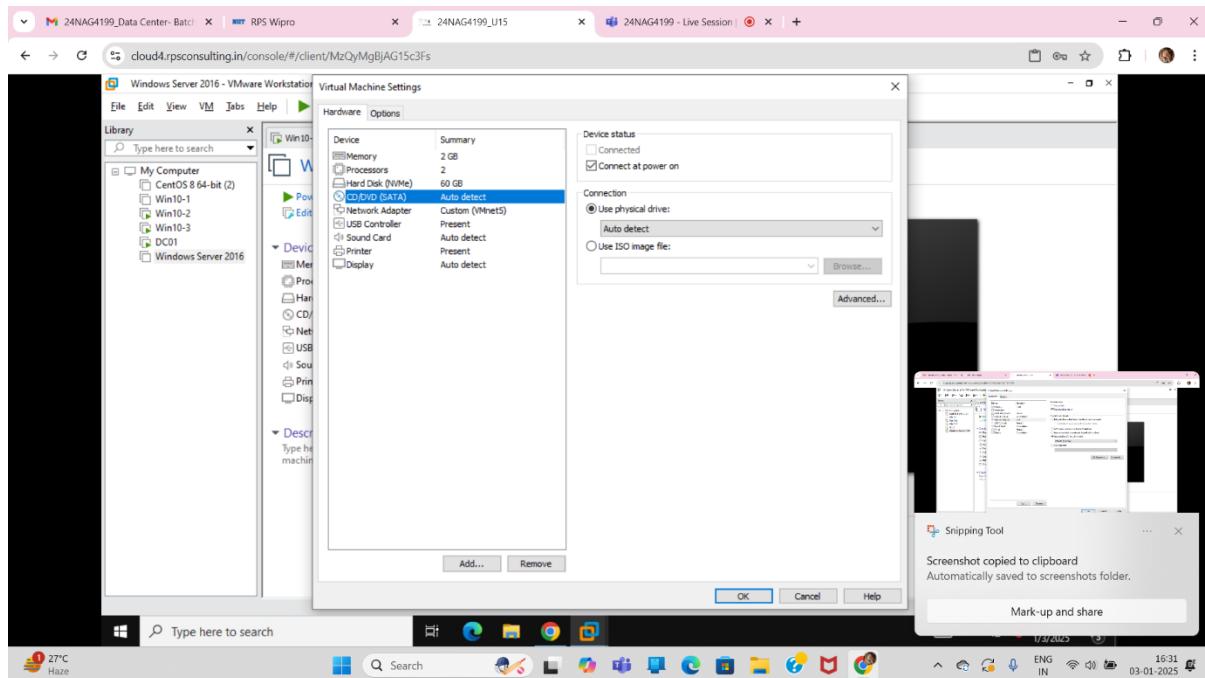
NOW GO TO THE NETWORK ADAPTER AND SELECT ON CUSTOM.



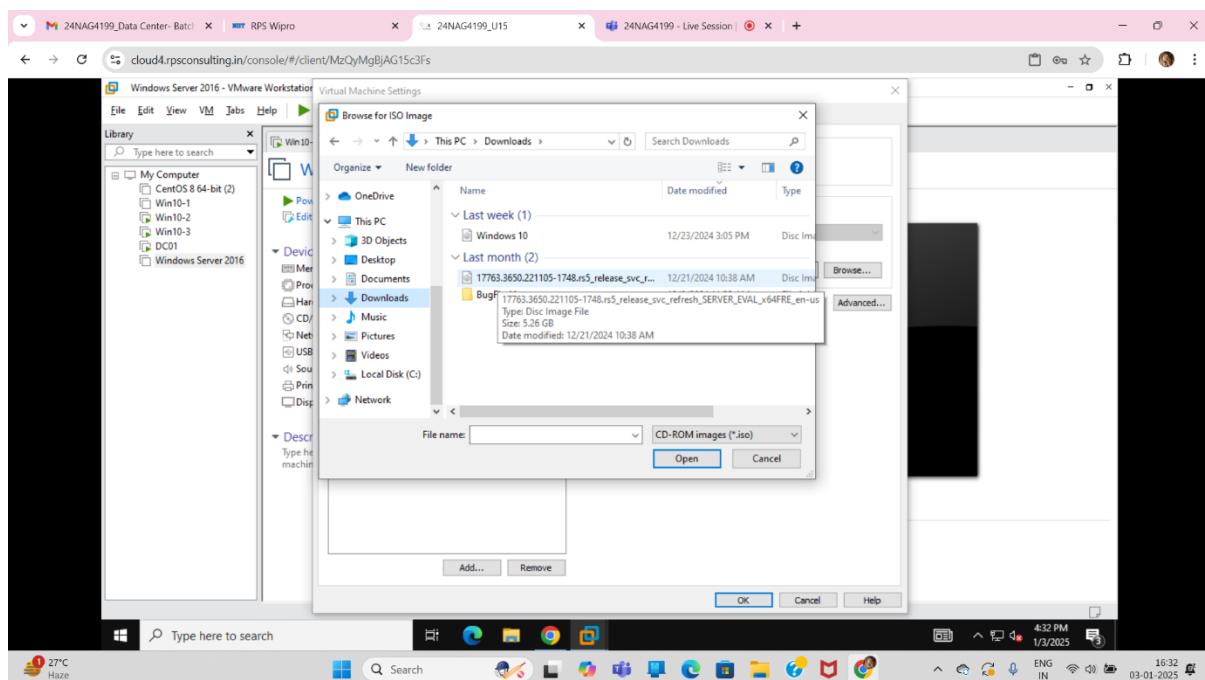
AND GIVE THE NETWORK AS VMNET5.

WIPRO ASSIGNMENT - 6

NOW GO TO THE CD/DVD OPTION AND USE THE ISO IMAGE FILE OPTION AND SELECT THE BROWSE OPTION.



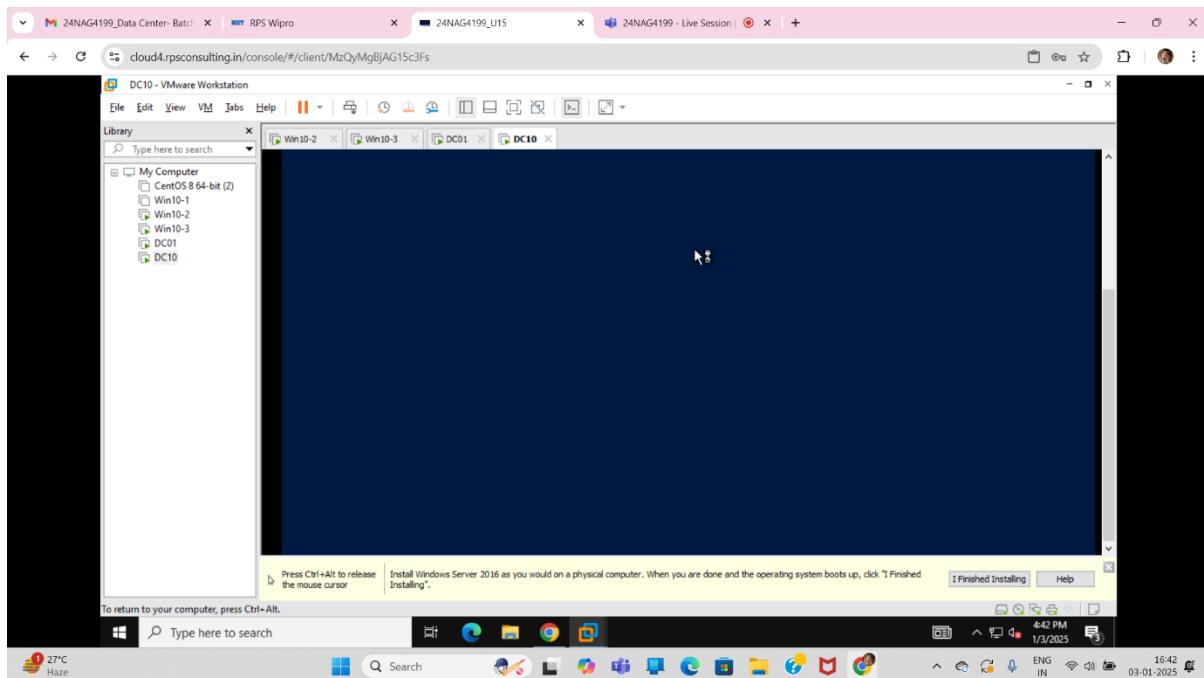
NOW SELECT THE ISO IMAGE IN THE PC FOLDER AS 17763....



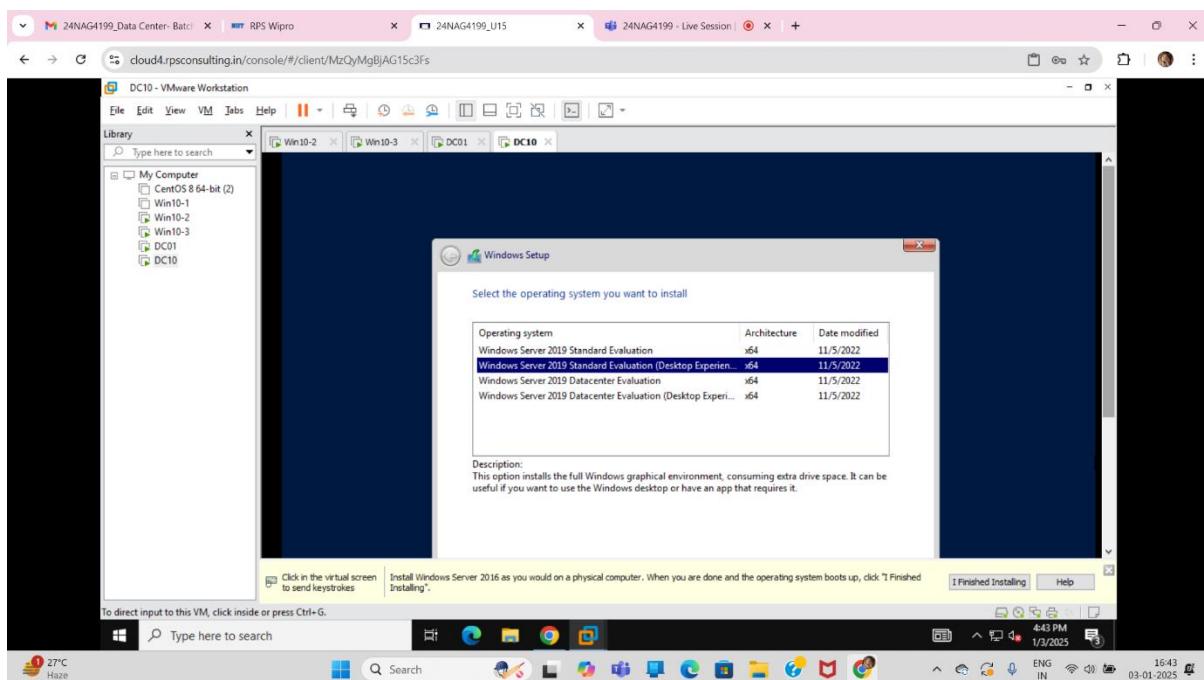
CLICK ON OPEN AND CLICK NEXT.

WIPRO ASSIGNMENT - 6

STEP – 5: NOW WE CAN SEE THAT THE DC10 IS LOADING.



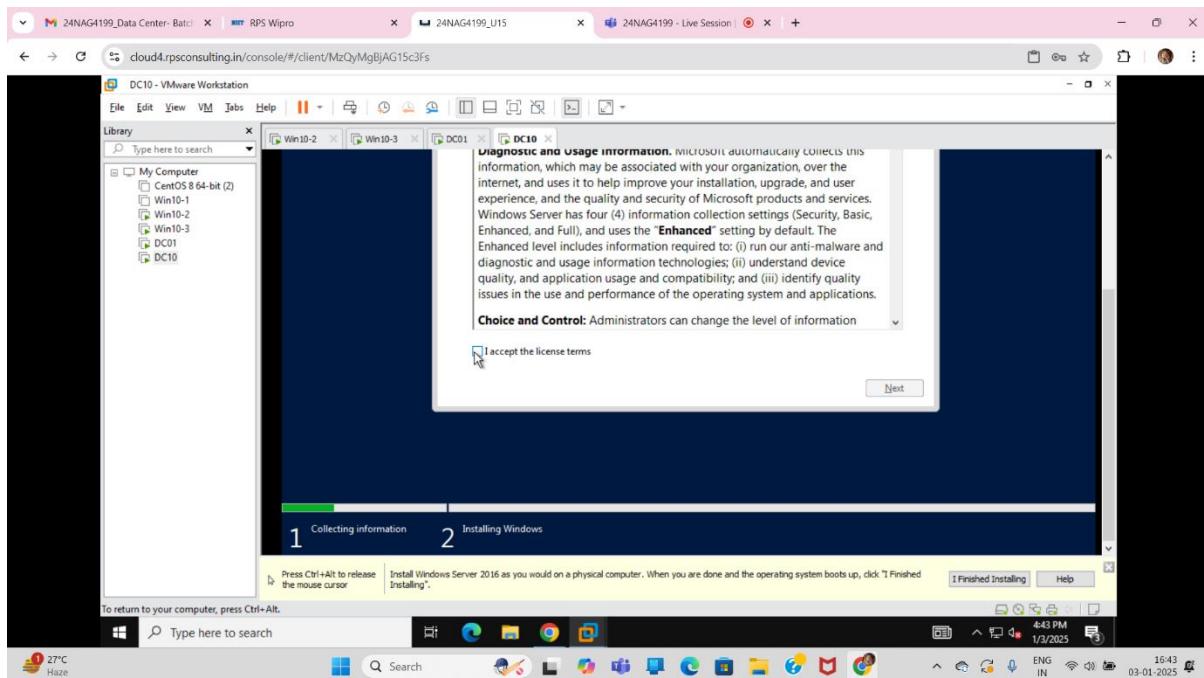
NOW CLICK ON 2ND OPTION AS WINDOWS SERVER 2019 STANDARD EVALUATION, CLICK NEXT.



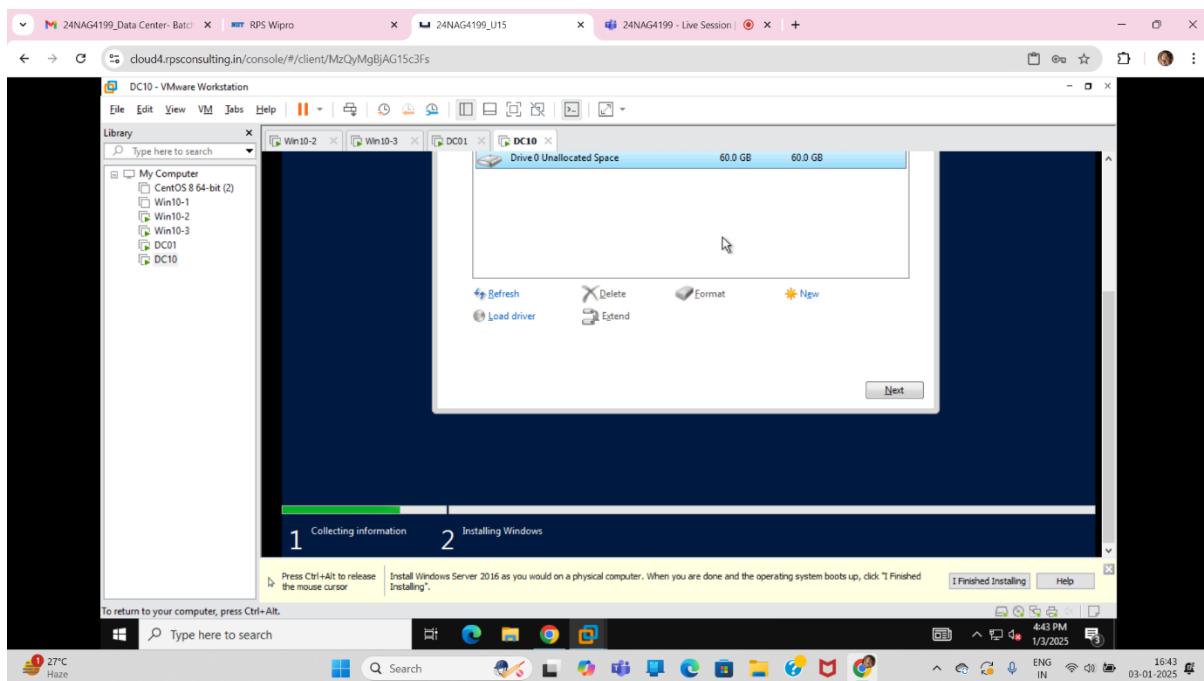
NOW CHECK ON THE LICENSE TERMS AND ACCEPT IT.

WIPRO ASSIGNMENT - 6

CLICK NEXT.

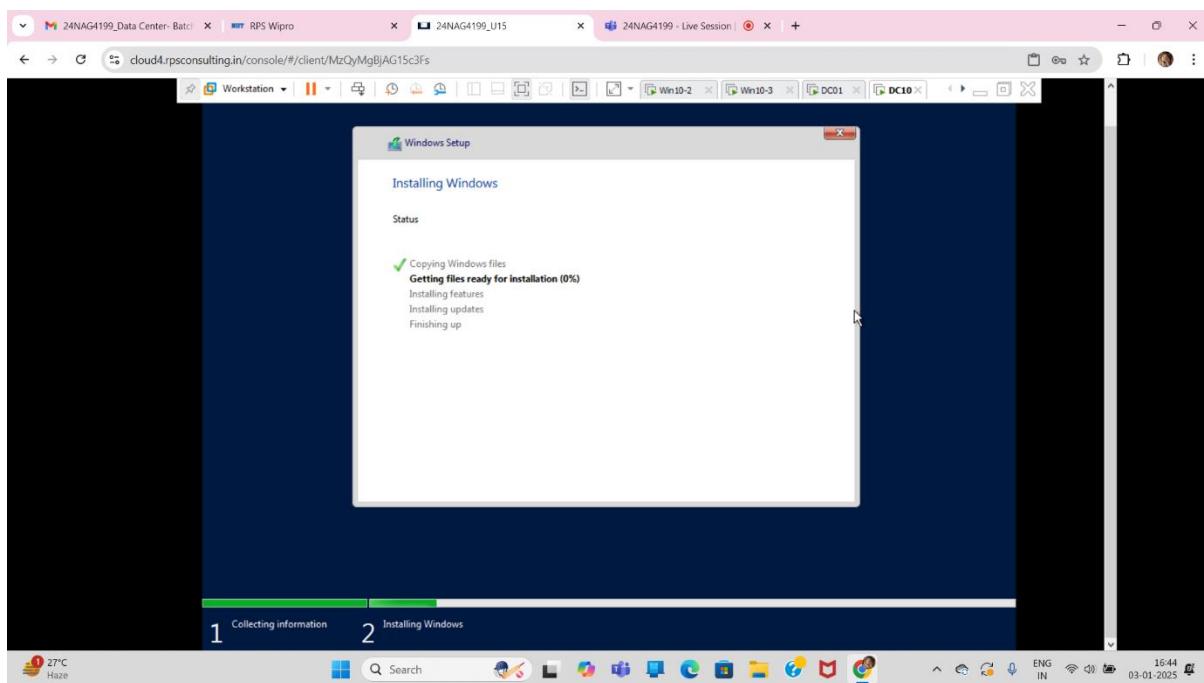


CLICK NEXT.

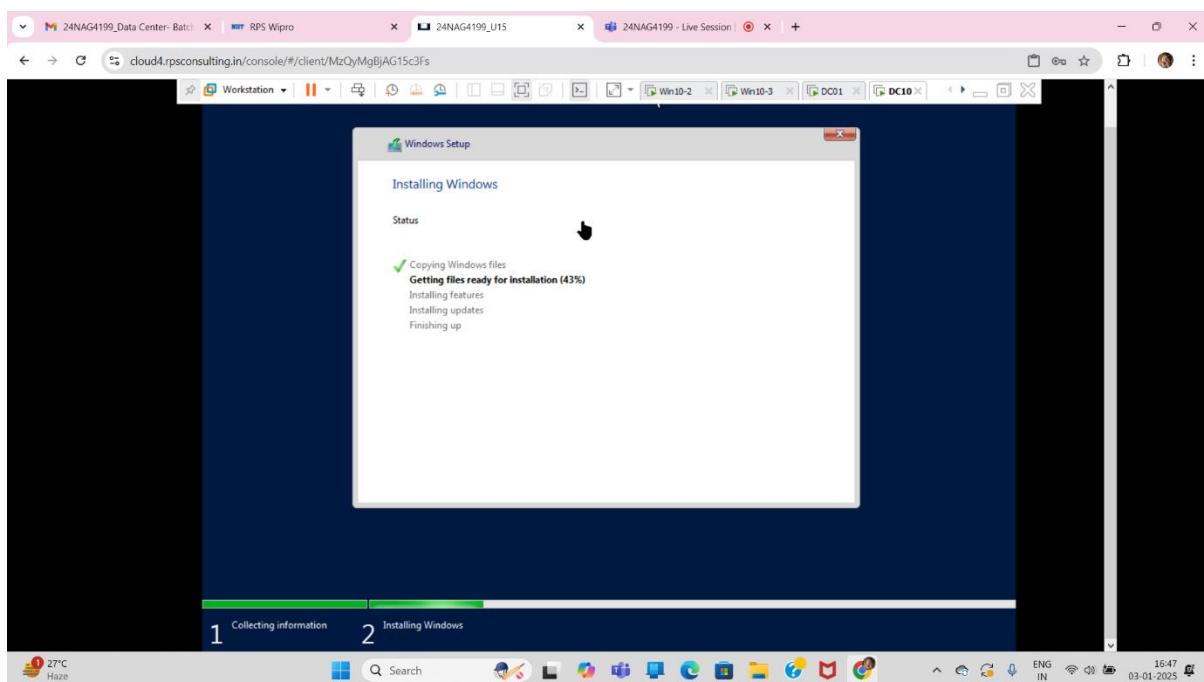


NOW IT STARTS DOWNLOADING THE SERVER.

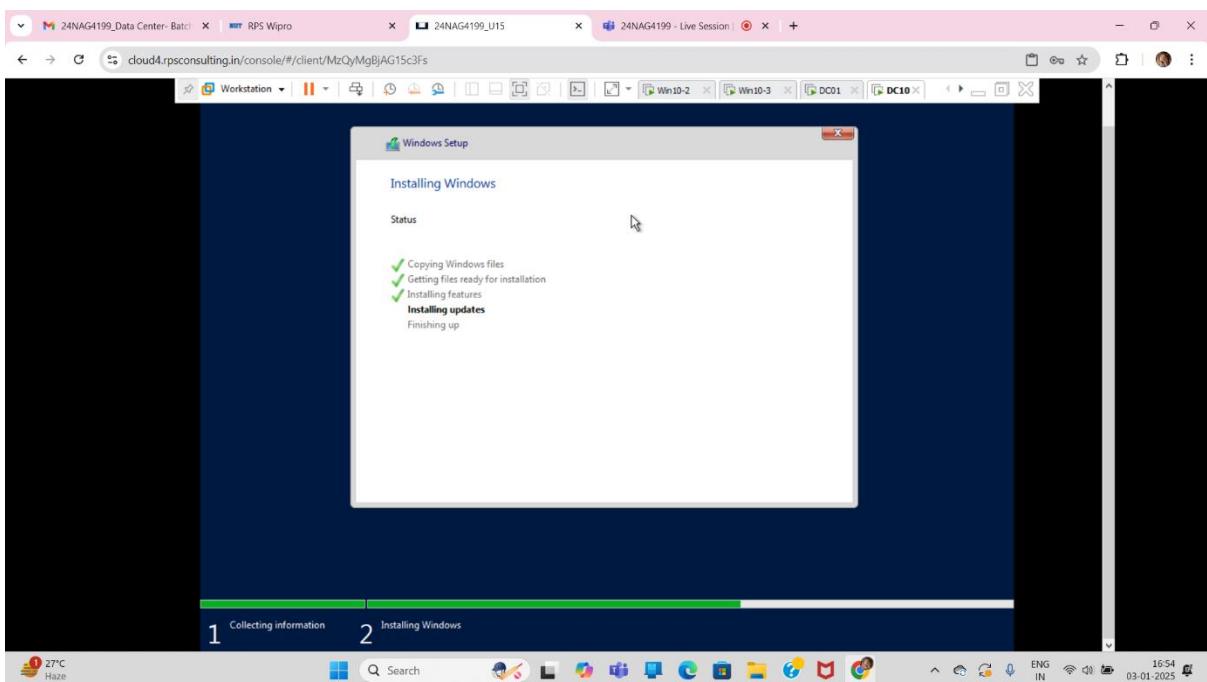
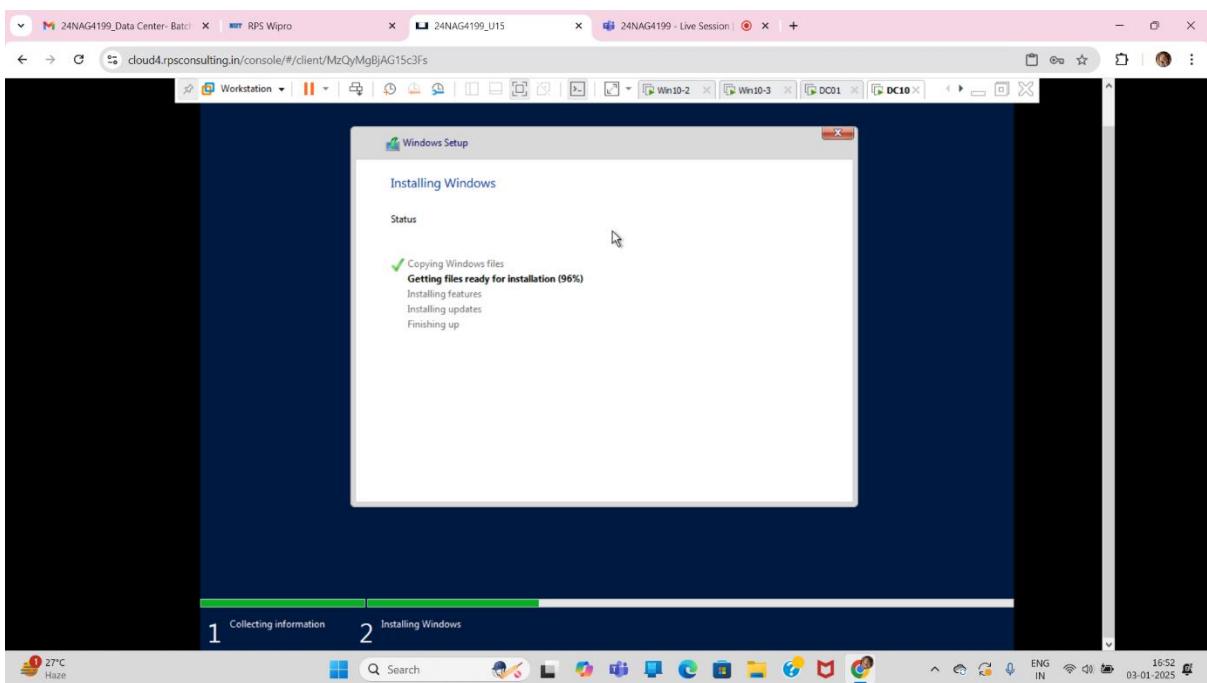
WIPRO ASSIGNMENT - 6



IT TAKES SEVERAL MINUTES TO BE COMPLETED.

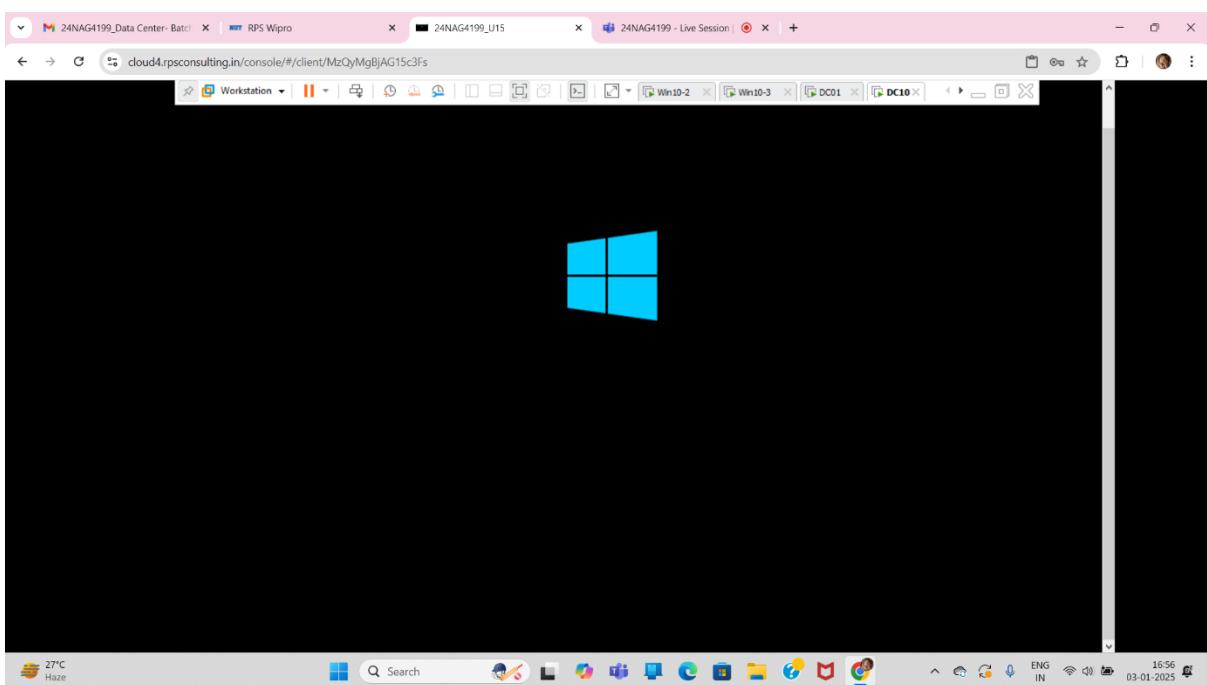


WIPRO ASSIGNMENT - 6



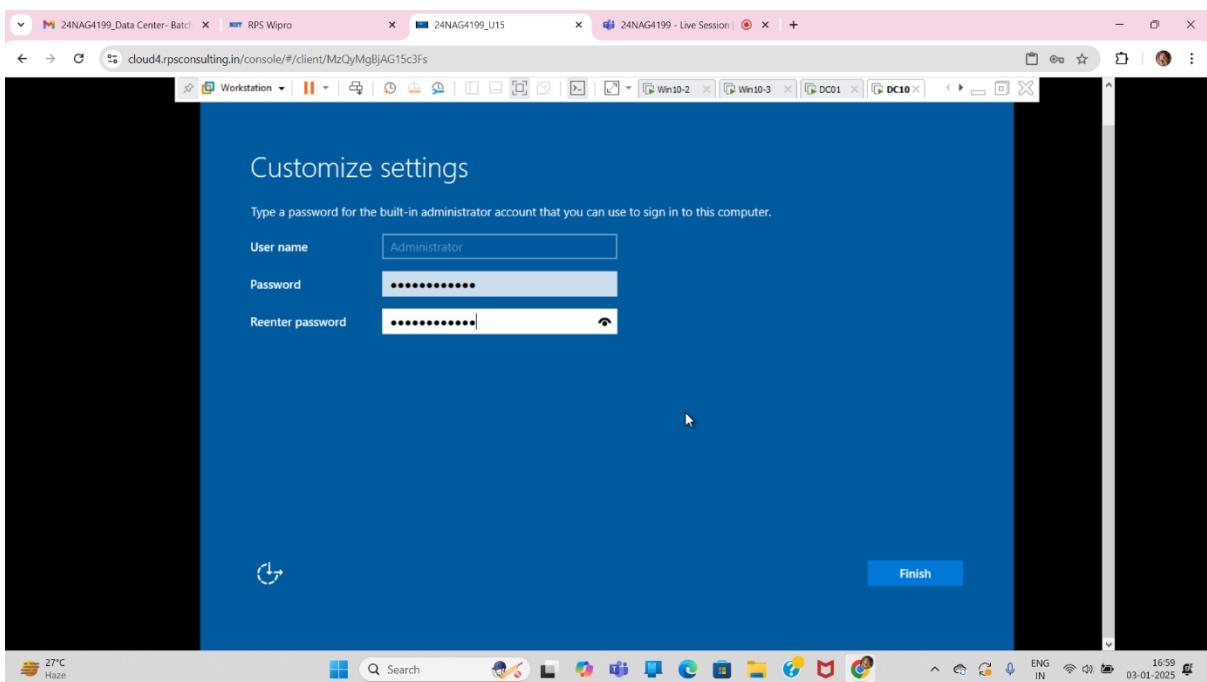
AFTER IT SUCCESSFULLT INSTALLED, IT DISPLAYS THE WINDOW ICON.

WIPRO ASSIGNMENT - 6



BY DEFAULT IT TAKES THE USER NAME AS ADMINISTRATOR,

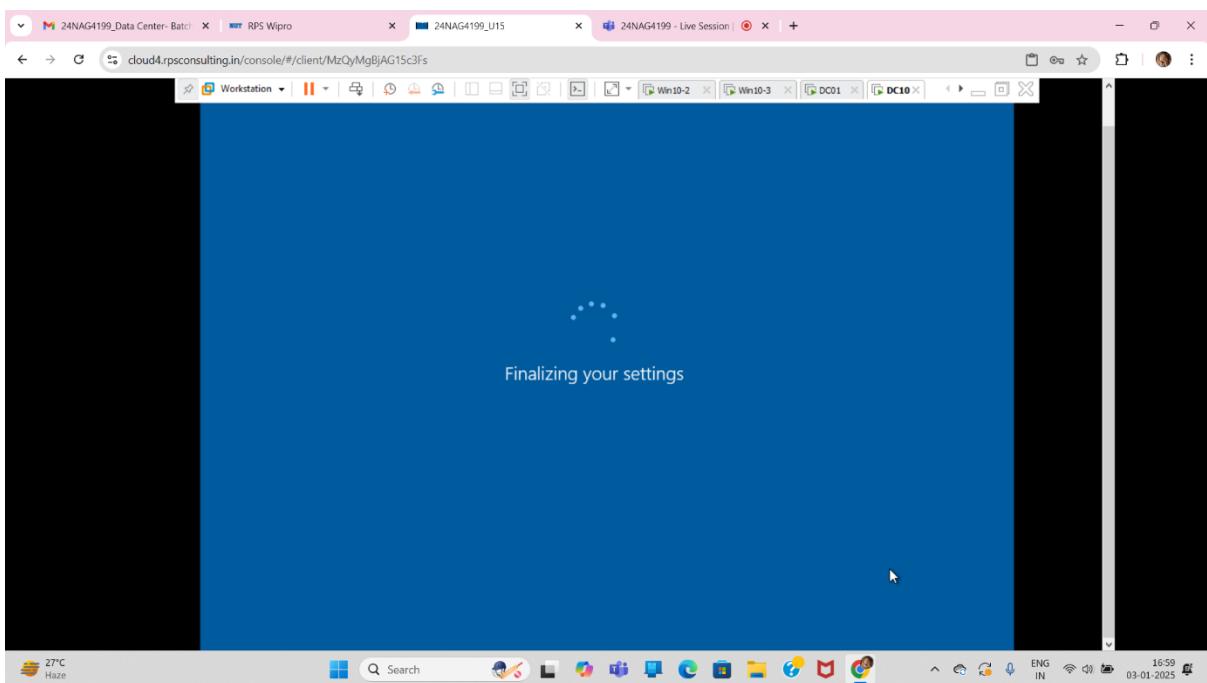
STEP -6: NOW WE HAVE TO SET THE PASSWORD FOR THE SERVER.



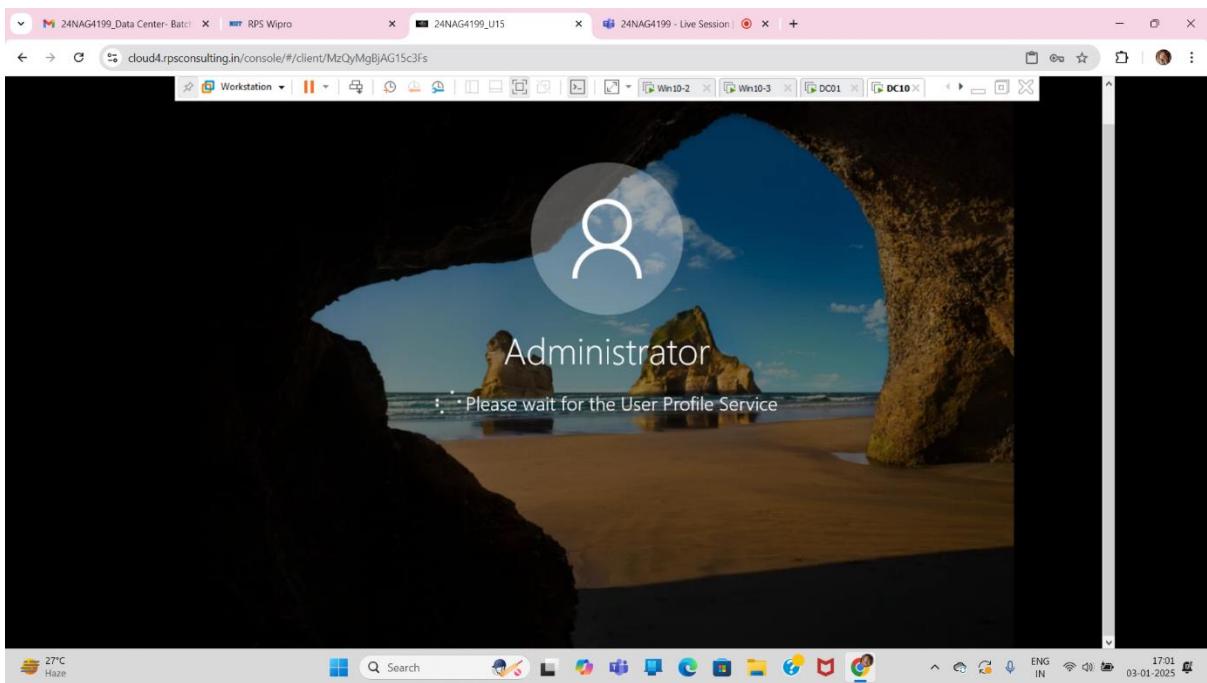
CLICK ON FINISH.

NOW IT LOADS TO INSTALL.

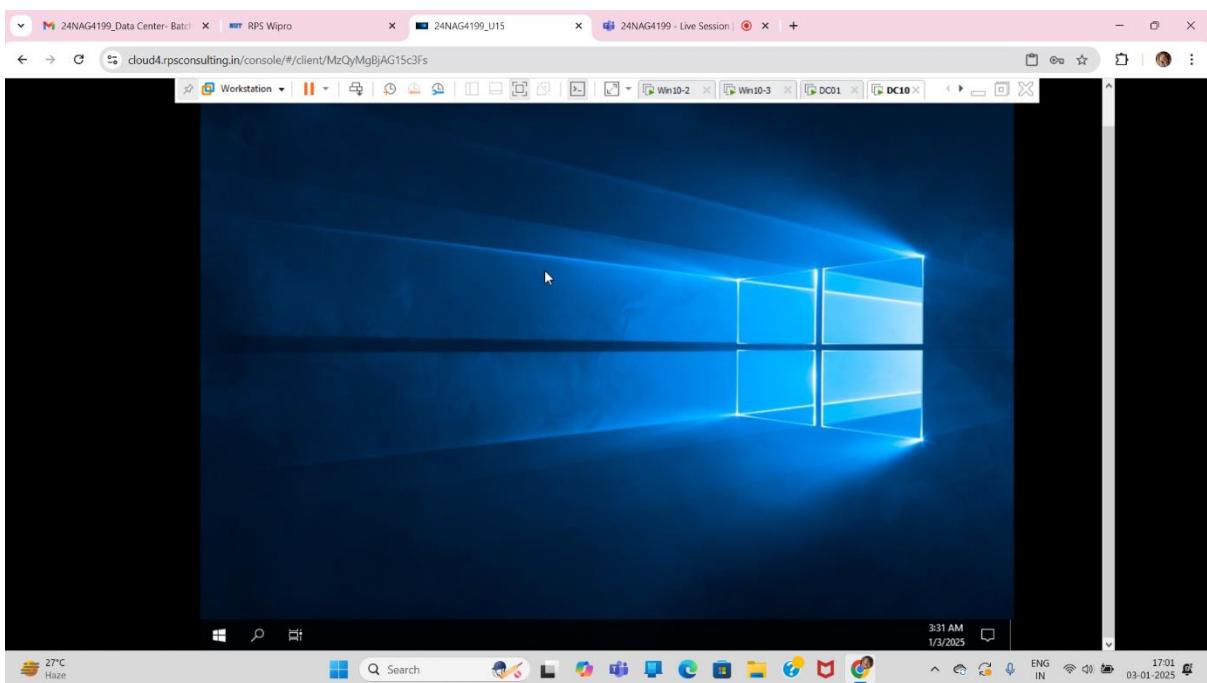
WIPRO ASSIGNMENT - 6



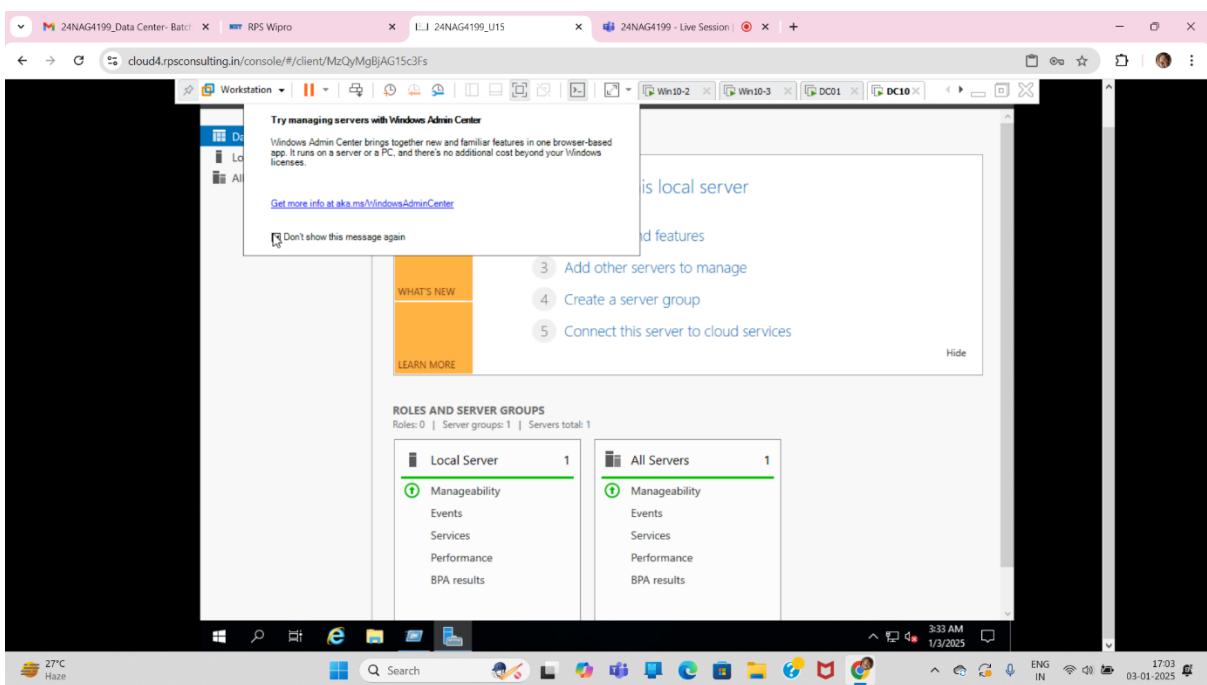
BY DEFAULT IT CREATES THE ADMINISTRATOR.



WIPRO ASSIGNMENT - 6

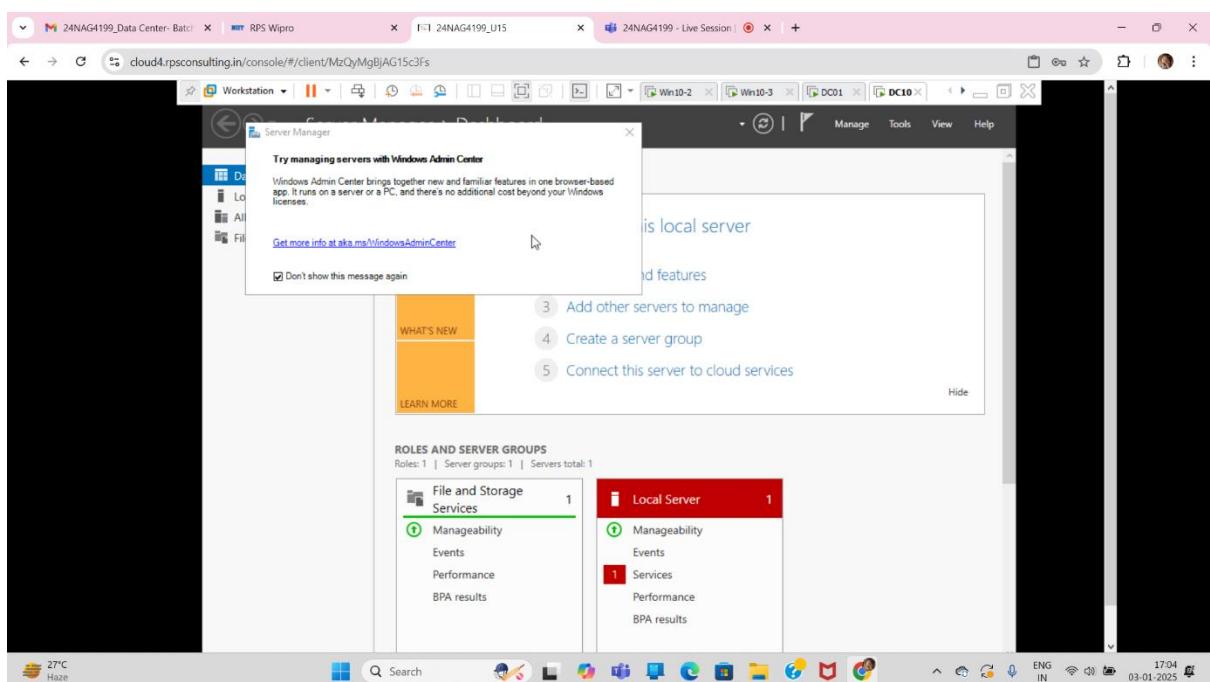


NOW IT OPENS AS THIS PAGE.

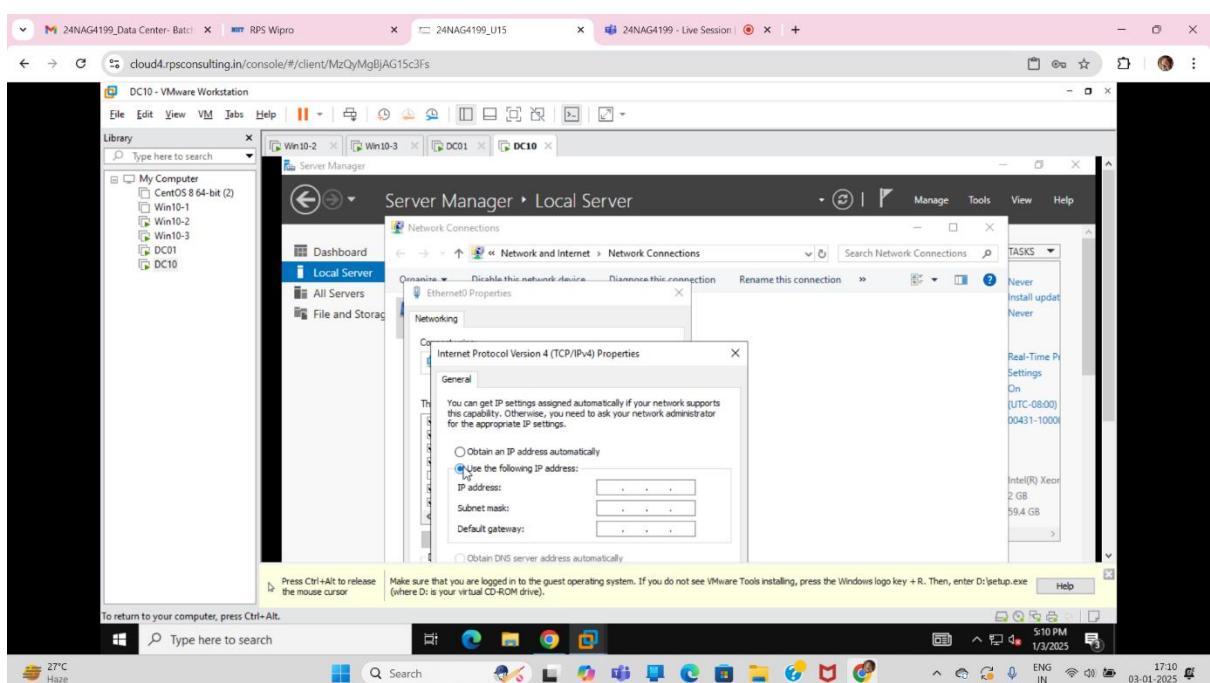


STEP -7: CLOSE THE ABOVE POP UP BUTTON,AND SELECT THE LOACL SERVER OPTION.

WIPRO ASSIGNMENT - 6



CLICK ON THE RIGHT SIDE OF THE DC10 PROFILE,

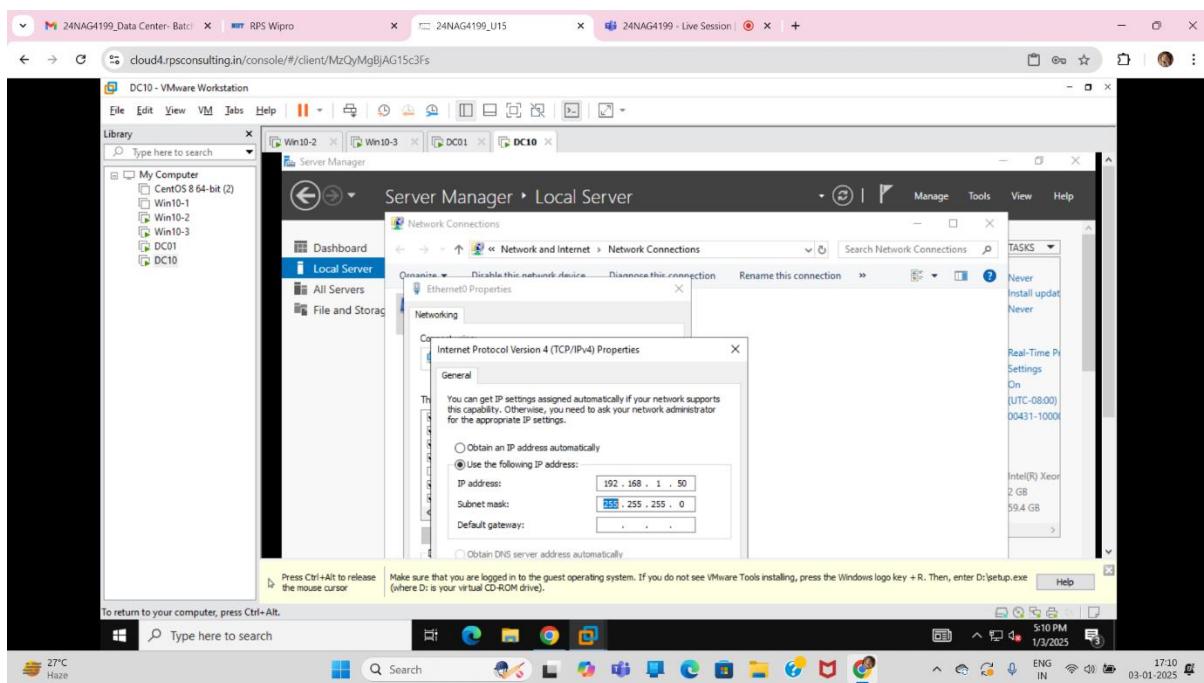


STEP – 8: SELECT THE IP ADDRESS OPTION,

AND GIVE THE IP ADDRESS AS 192.168.1.50 AND CLICK ON TAB BUTTON,

IT AUTOMATICALLY TAKES THE SUBNET MASK.

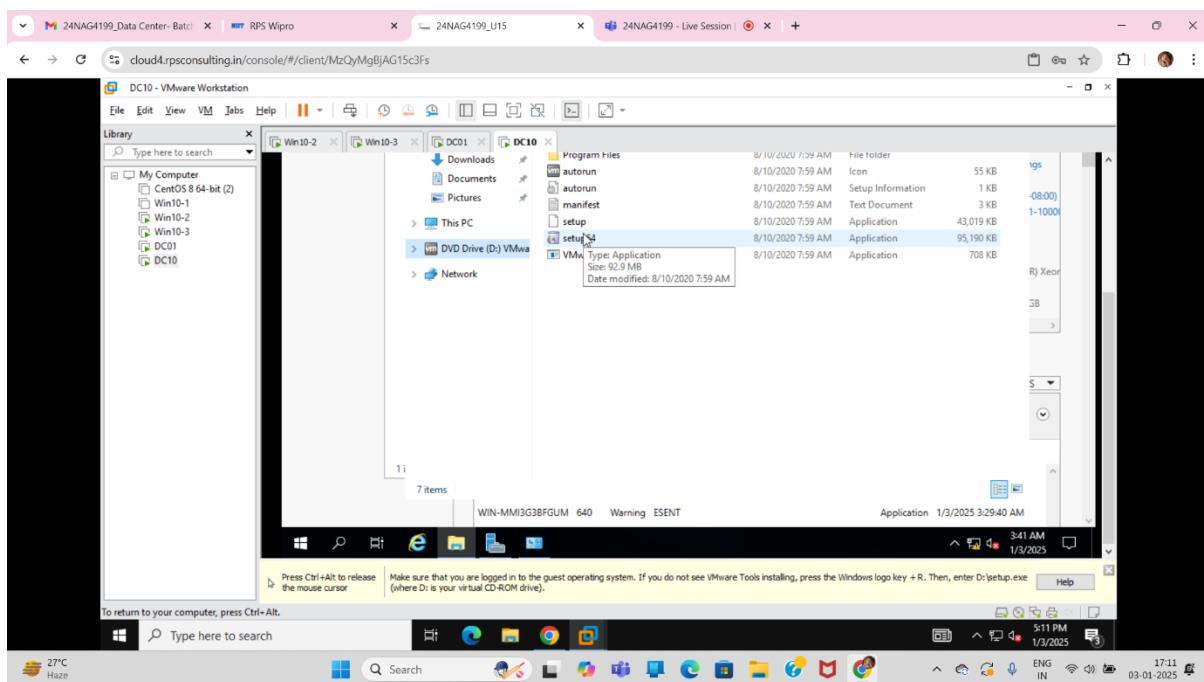
WIPRO ASSIGNMENT - 6



NOW,

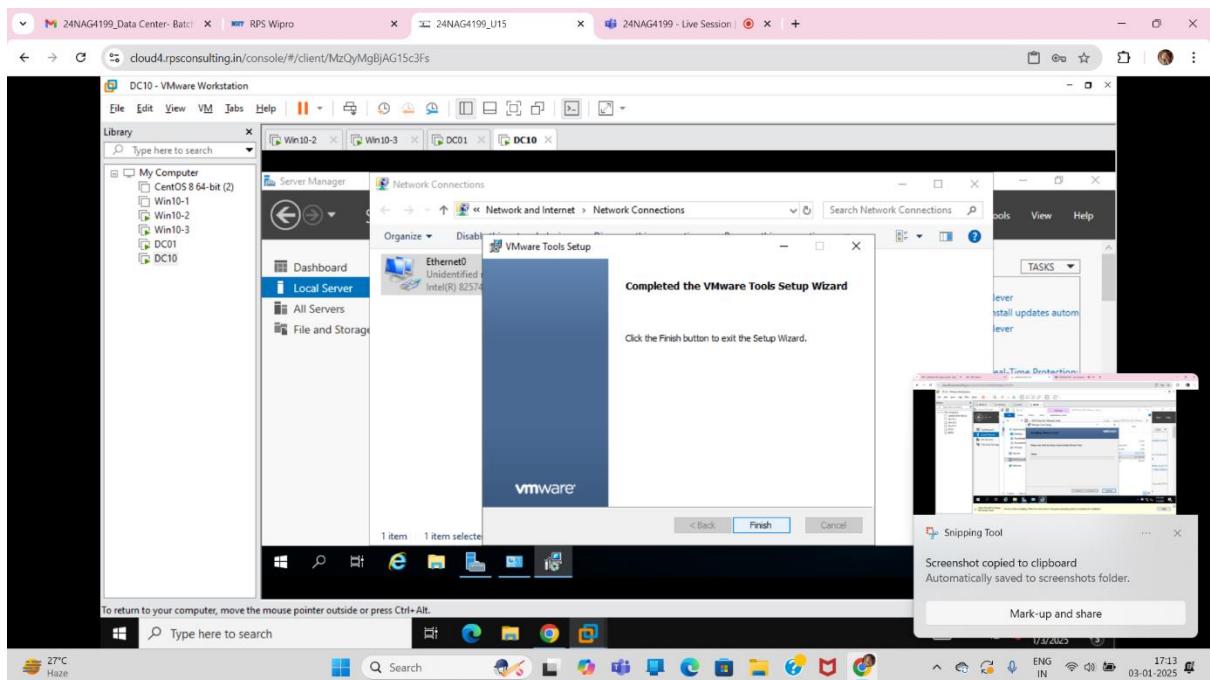
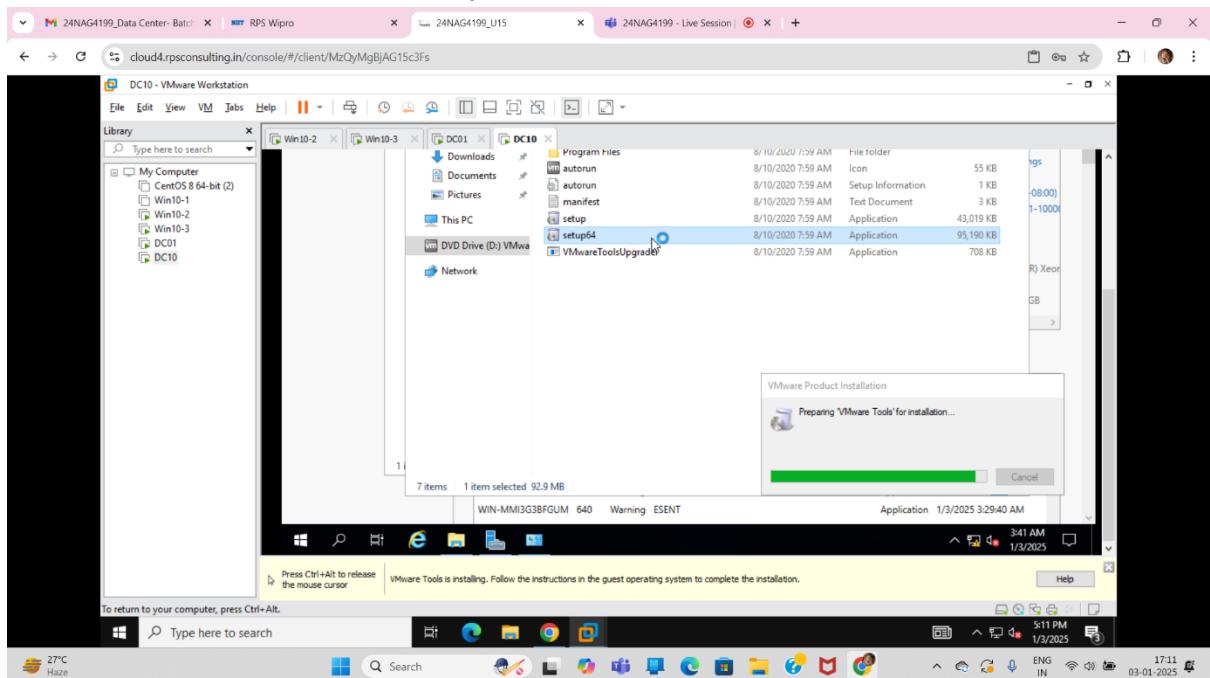
OPEN THE FILE EXPLORER OPTION AND SELECT THE DVD OPTION

CLICK ON THE SETUP 65 OPTION.

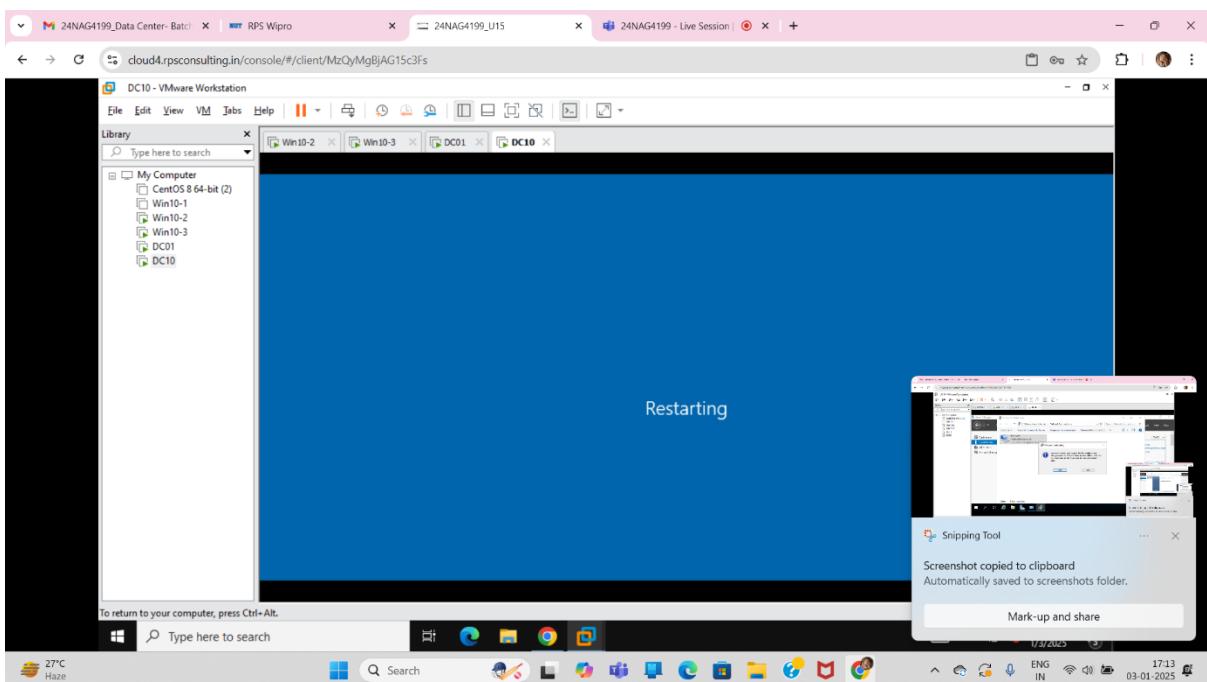
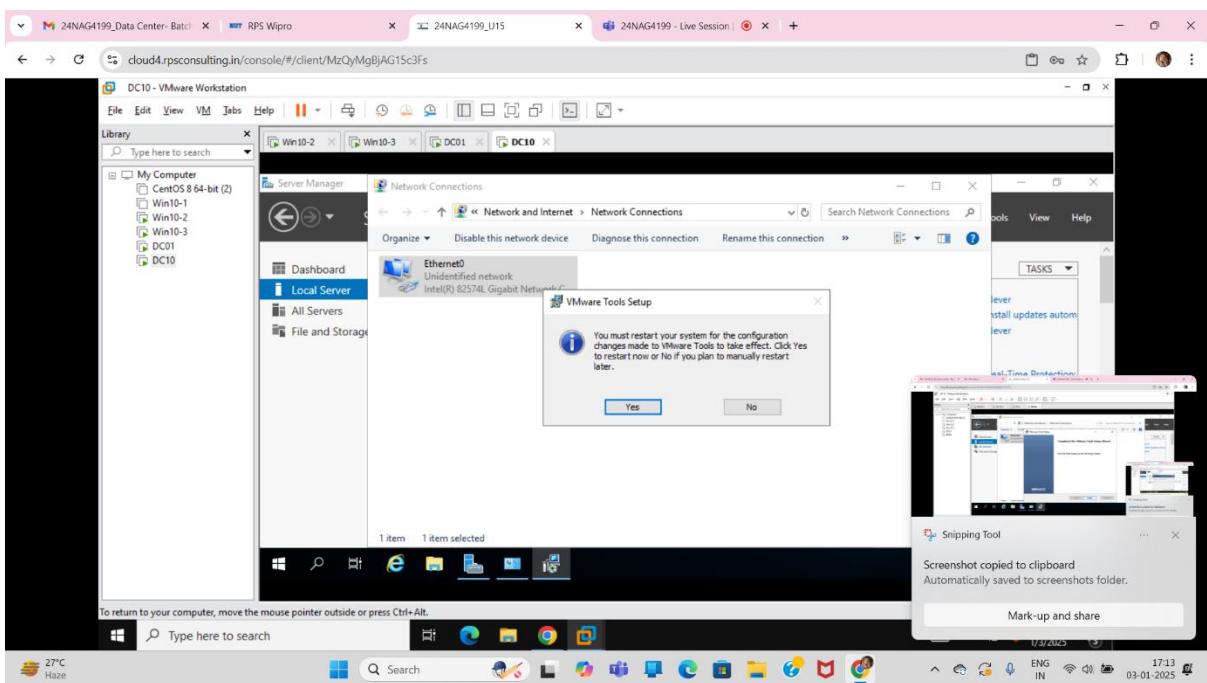


WIPRO ASSIGNMENT - 6

STEP – 9: NOW IT STARTS LOADING,

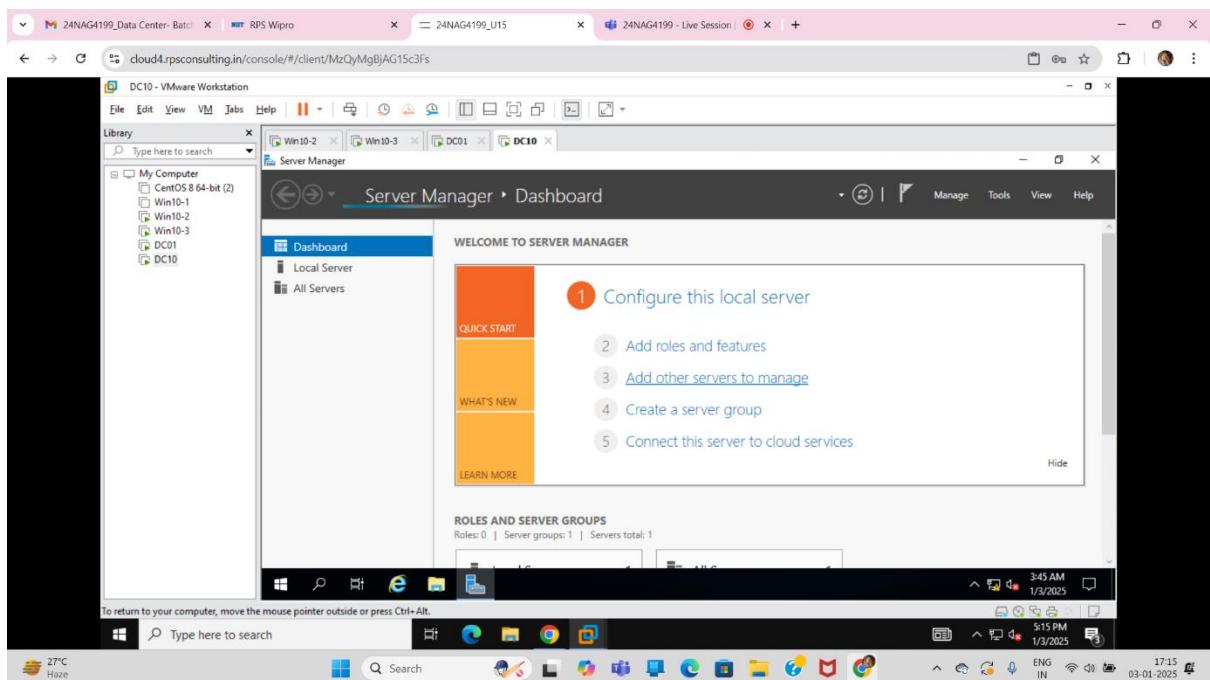
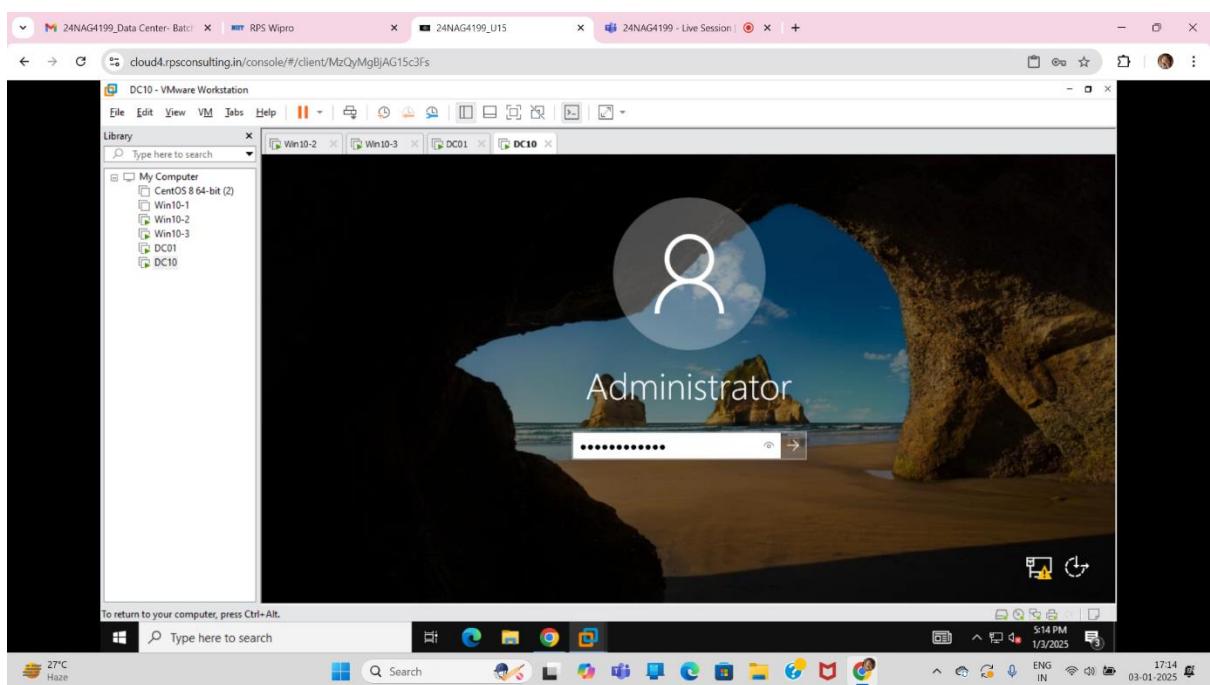


WIPRO ASSIGNMENT - 6



AND IT RESTARTS.

WIPRO ASSIGNMENT - 6

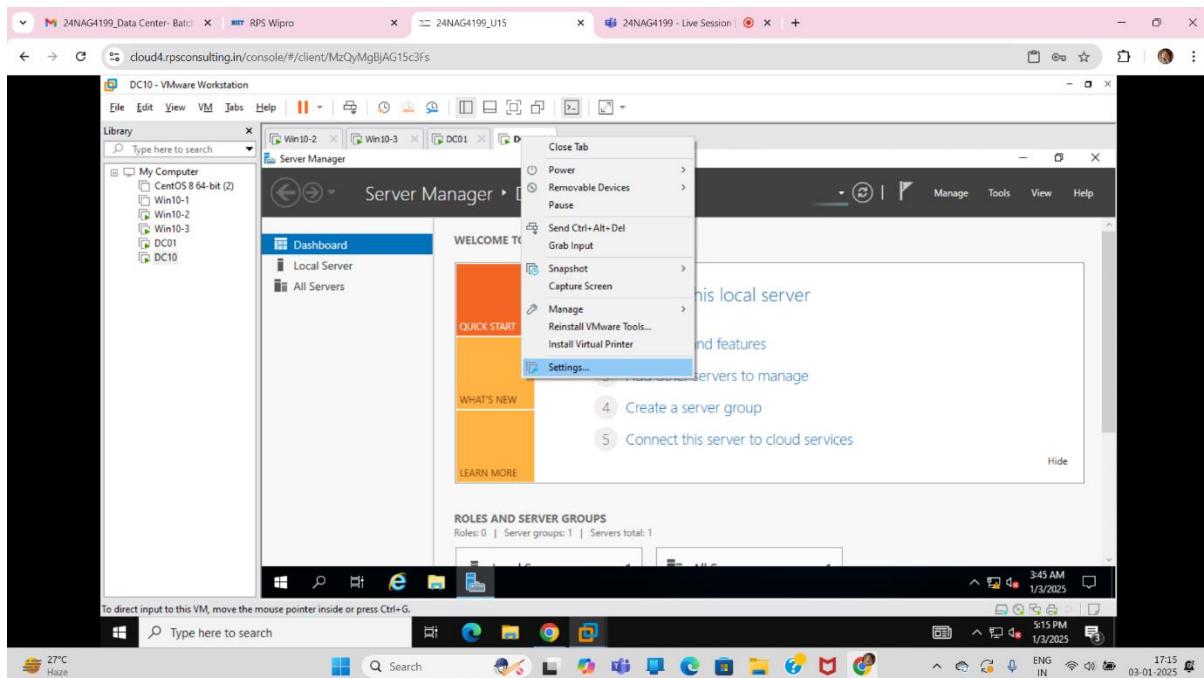


NOW WE WILL SEE HOW TO ADD THE HARDWARE,

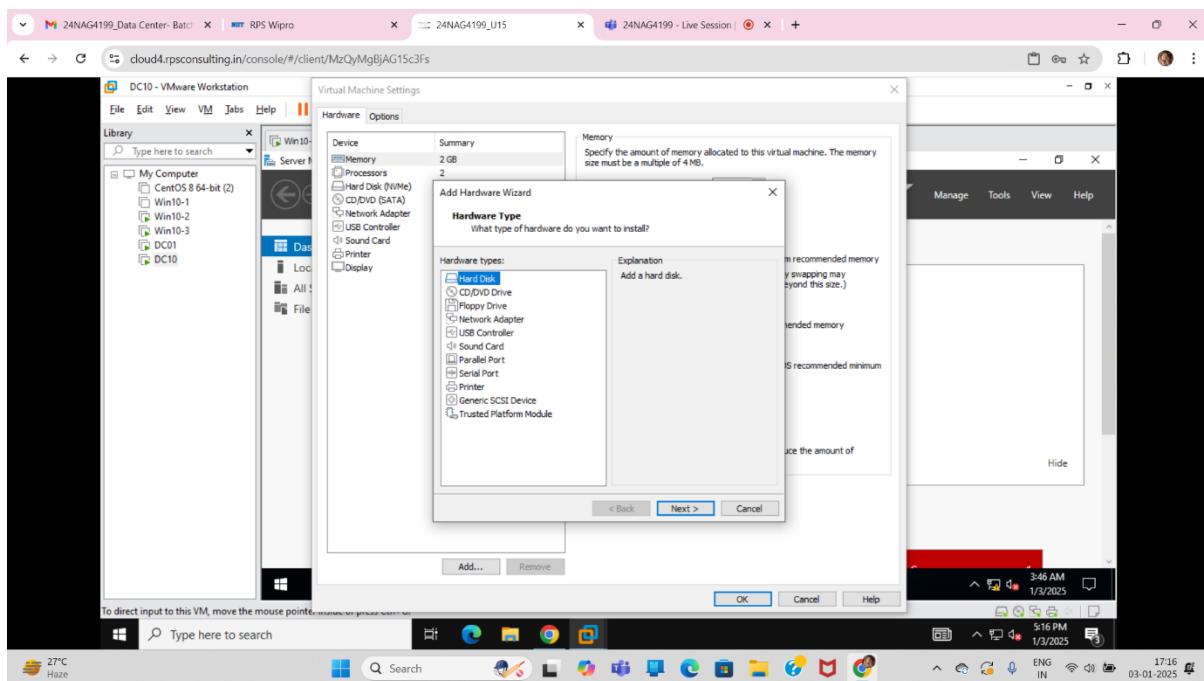
→ **ADDING THE HARDWARES:**

WIPRO ASSIGNMENT - 6

CLICK ON THE RIGHT BUTTON OF THE DC10 AND SELECT THE SETTINGS OPTION.

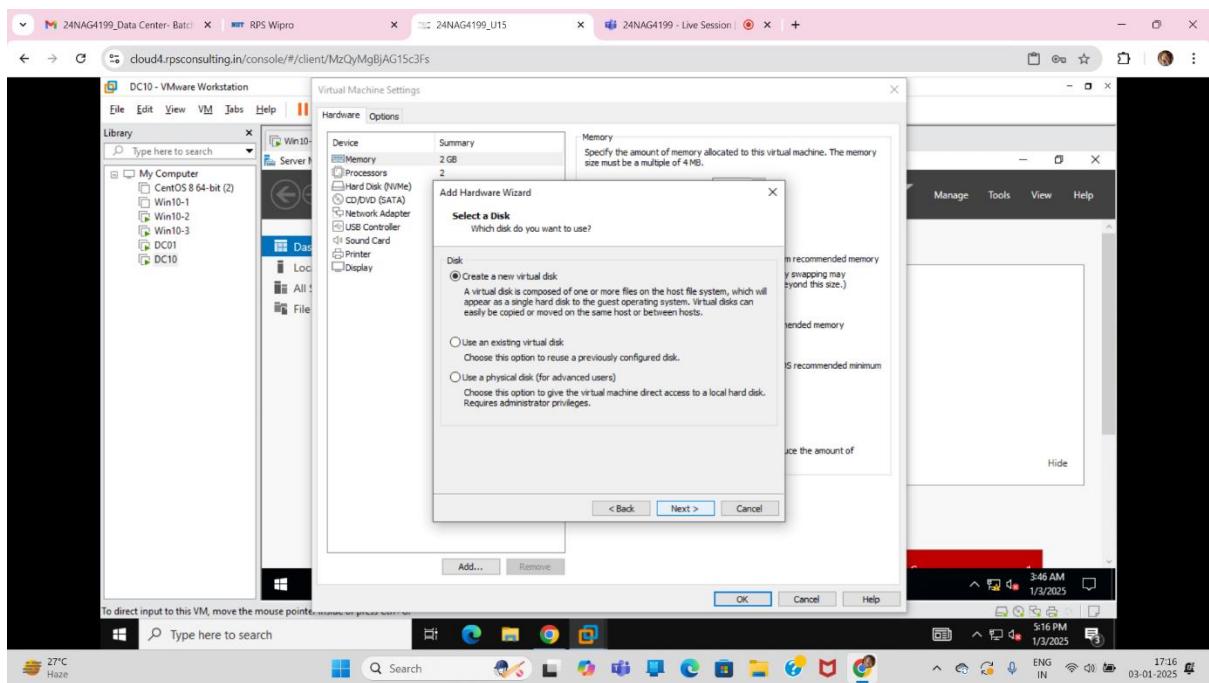
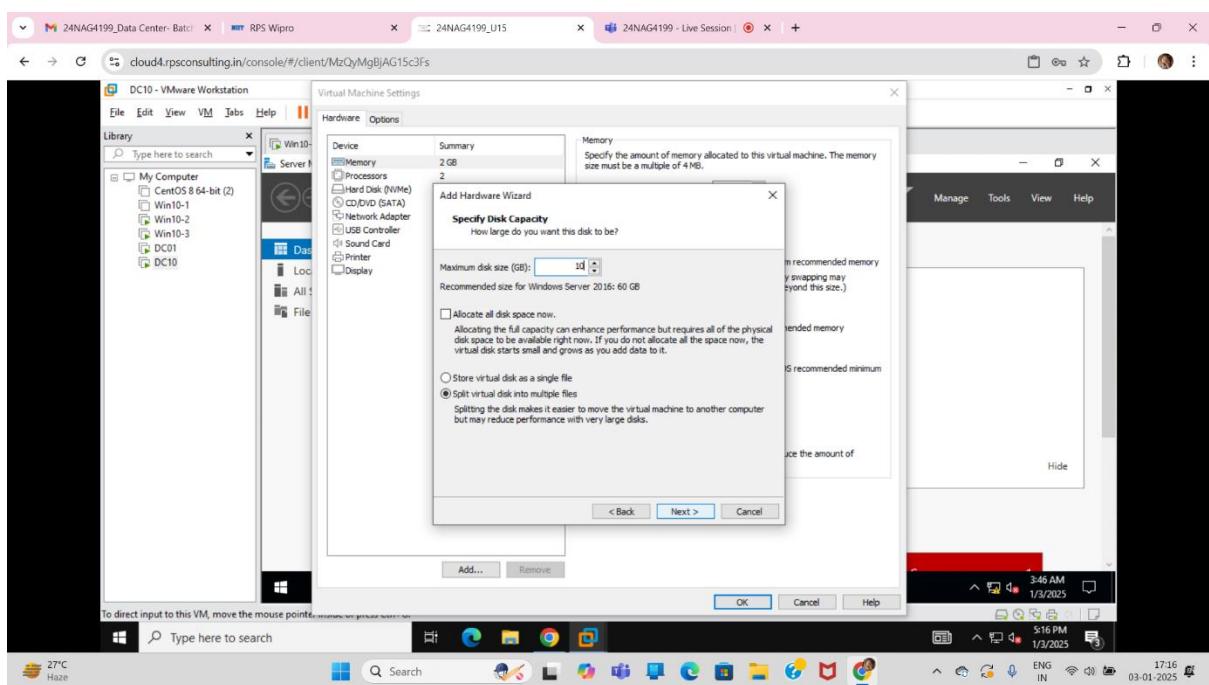


SELECT THE HARD DISK OPTION,



CLICK ON NEXT

WIPRO ASSIGNMENT - 6

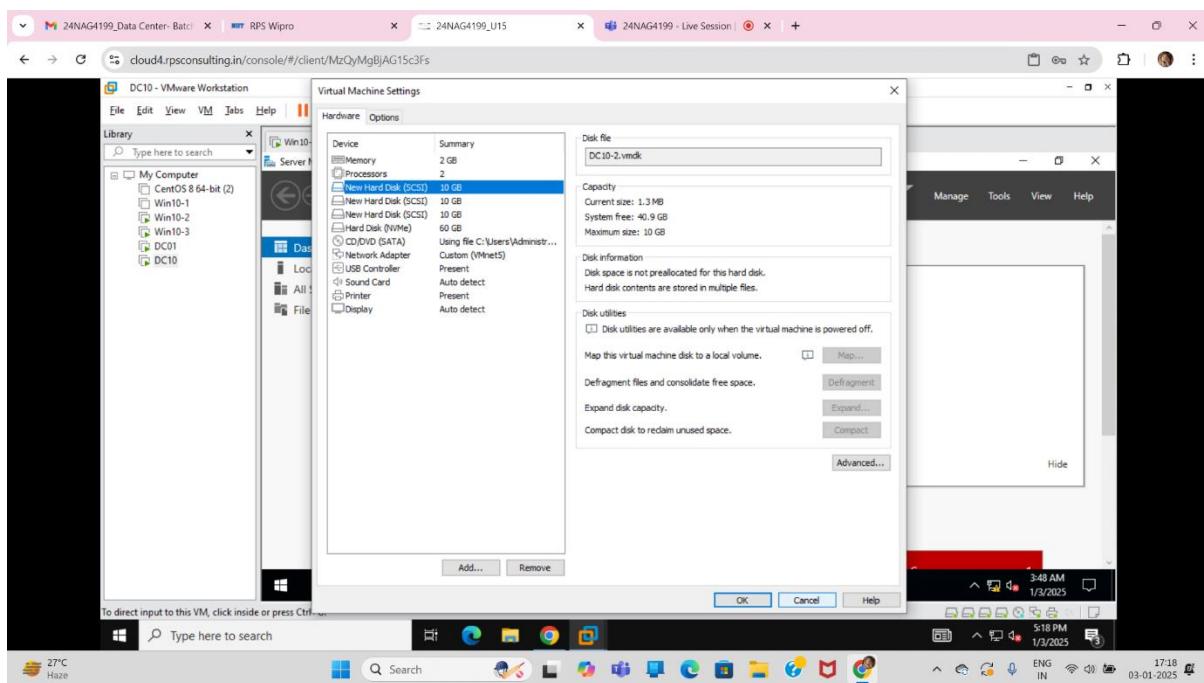


CLICK NEXT.

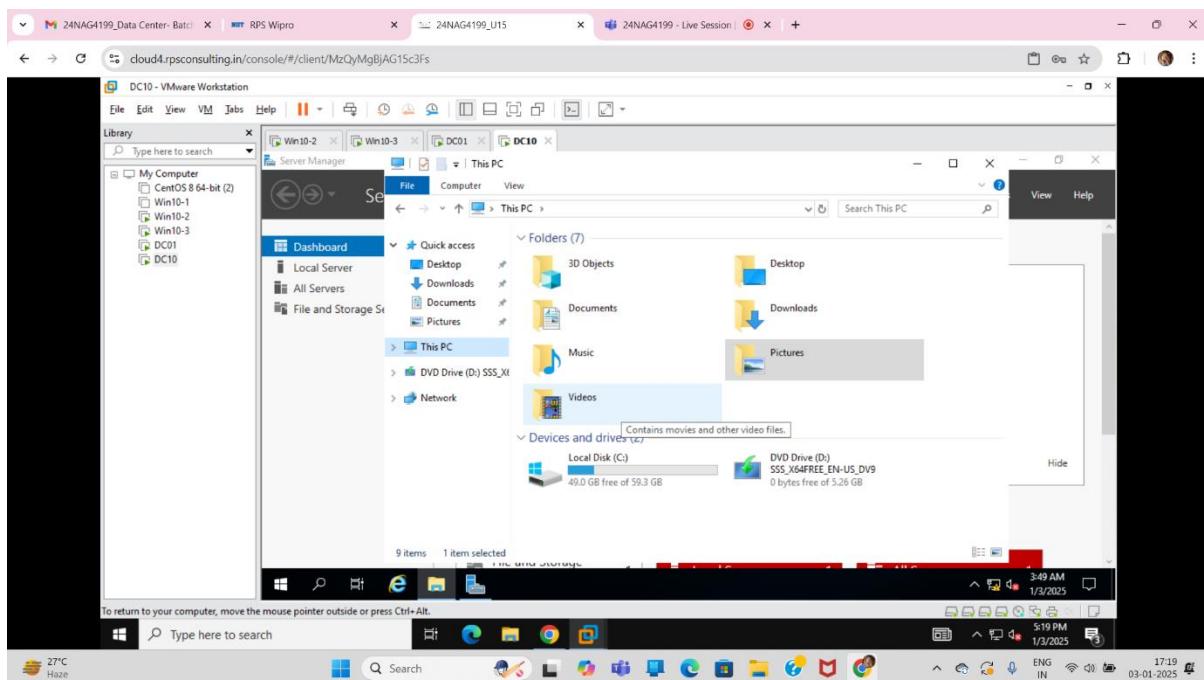
NOW THE HARD DISK WAS CREATED.

SIMILARLY, ADD ANOTHER 2 HARD DISKS.

WIPRO ASSIGNMENT - 6



BUT WE CANNOT SEE THE HARD DISKS IN THE FILE MANAGER,

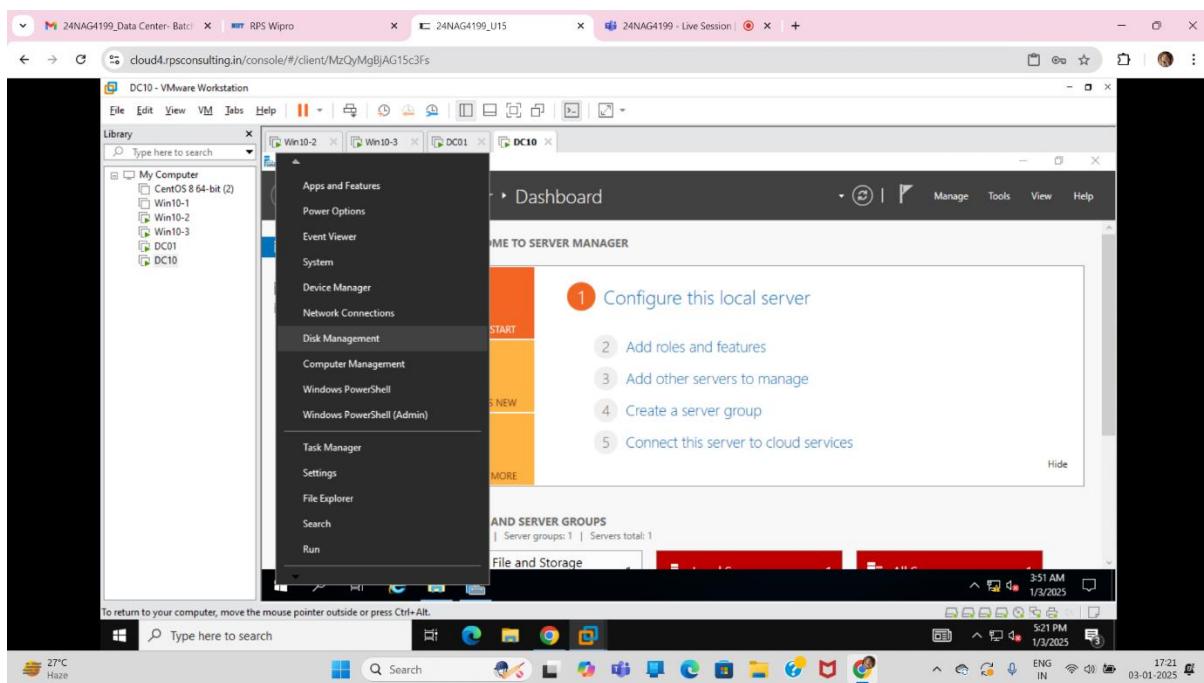


NOW,

CLICK ON THE START BUTTON,

SELECT THE DISK MANAGEMENT OPTION ENTER OK.

WIPRO ASSIGNMENT - 6



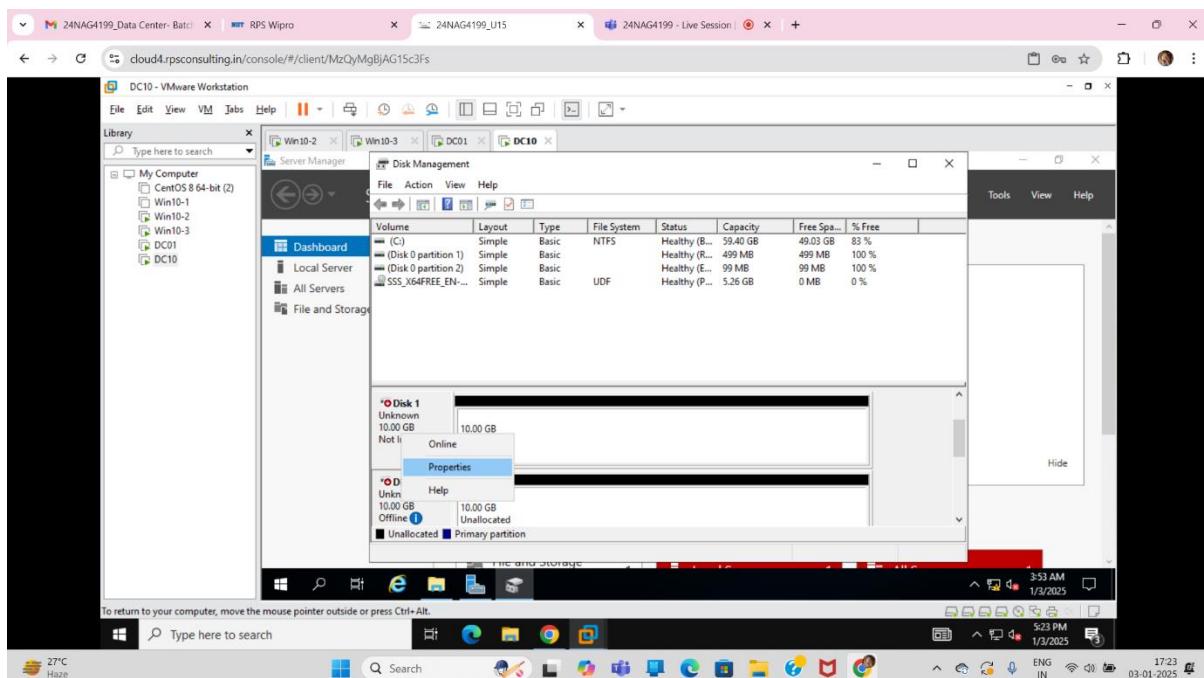
IT DISPLAYS THIS OPTION,

WE CAN SEE THE HARD DISKS IN THE BELOW AS:

DISK 1

DISK 2

DISK 3.

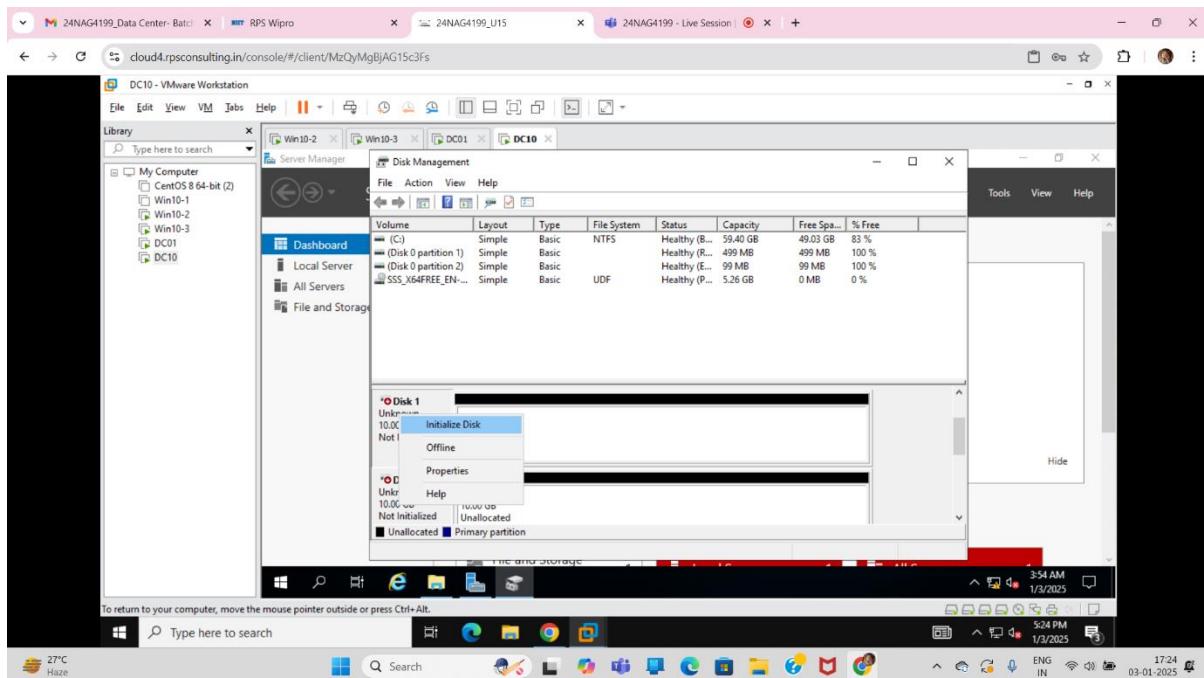


NOW, CLICK ON THE DISK 1 -> RIGHT CLICK AND GO TO THE ONLINE OPTION AND CLICK OK.

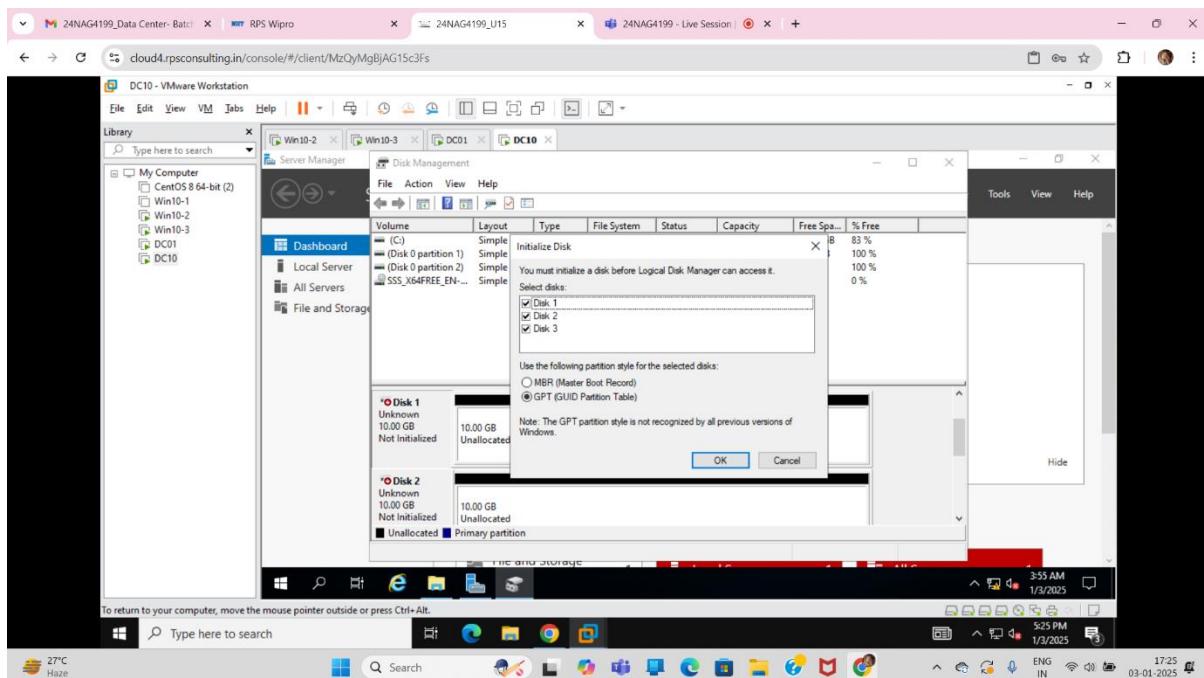
WIPRO ASSIGNMENT - 6

NOW ITS ON BUT NOT INITIALIZED.

SIMILARLY, DO FOR ALL 3 DISKS.



NOW, SELECT ON INITIALIZE DISK FOR ALL THE 3 HARD DISKS.



CLICK OK.

NOW WE CAN SEE THAT ALL THE HARD DISKS WERE ACTIVATED.

→ VOLUME:

* IT IS A LOGICAL CONTAINER THAT STORES DATA FOR APPLICATIONS ,DATABASES ,AND FILE SYSTEMS.

*IT IS A STORAGE THAT PROVIDES A STRUCTURE FOR ACCESSING DATA.

*THEY ARE USED TO ORGANIZE DATA, STREAM LINE ACCESS AND MANAGE DATA.

→ **TYPES OF VOLUMES:**

THERE ARE 5 TYPES OF VOLUMES

1. SAMPLE VOLUME
2. SPANNED VOLUME
3. STRIPED VOLUME
4. MIRRORED VOLUME
5. RAID5 VOLUME.

NOW LET US SEE THEM BRIEFLY,

1.SAMPLE VOLUME: IT IS A PORTION OF A PHYSICAL DISK THAT ACTS AS A
SEPARATE UNIT.

IT IS A DISK SPACE TO SAVE DATA.

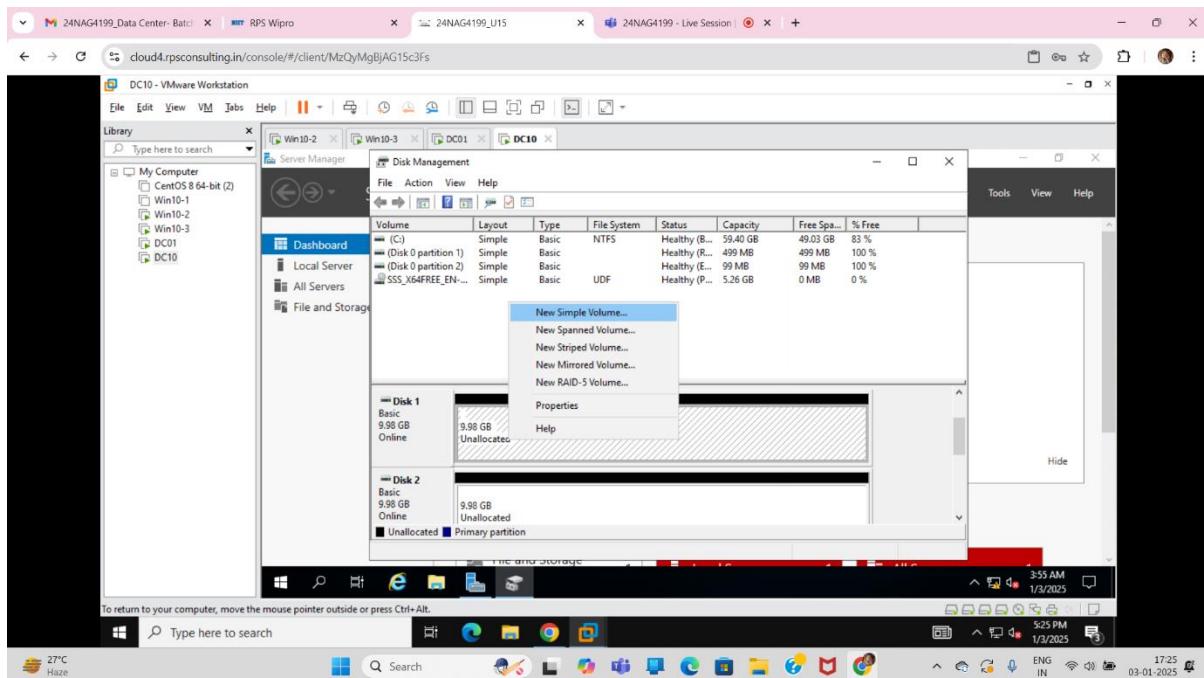
- * MINIMUM HARD DISK DRIVE : 1 HDD
- * MAXIMUM HARD DISK DRIVE : 1 HDD
- * PERFORMANCE : NO
- * FALL TOLERANCE : NO

NOW LET US DO IN THE VIRTUAL MACHINE,

CLICK ON THE DISK 1, GIVE RIGHT CLICK ON IT

WIPRO ASSIGNMENT - 6

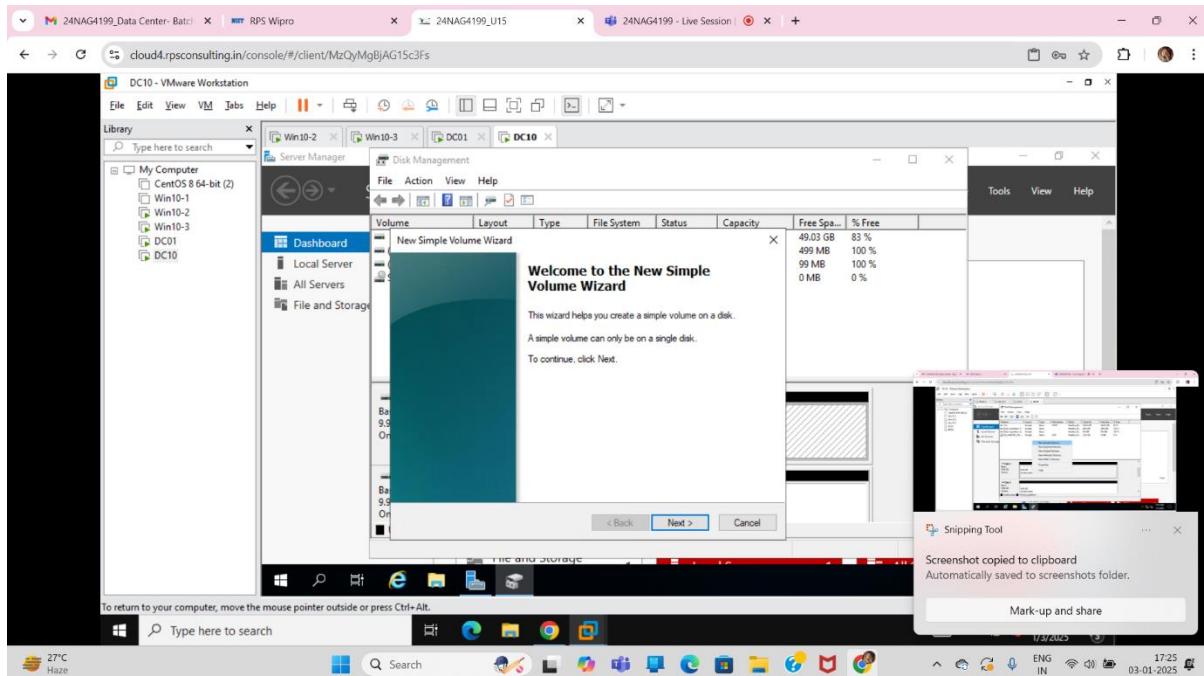
WE CAN SEE THE TYPES OF VOLUMES IN THE OPTIONS.



NOW SELECT THE NEW SAMPLE VOLUME,

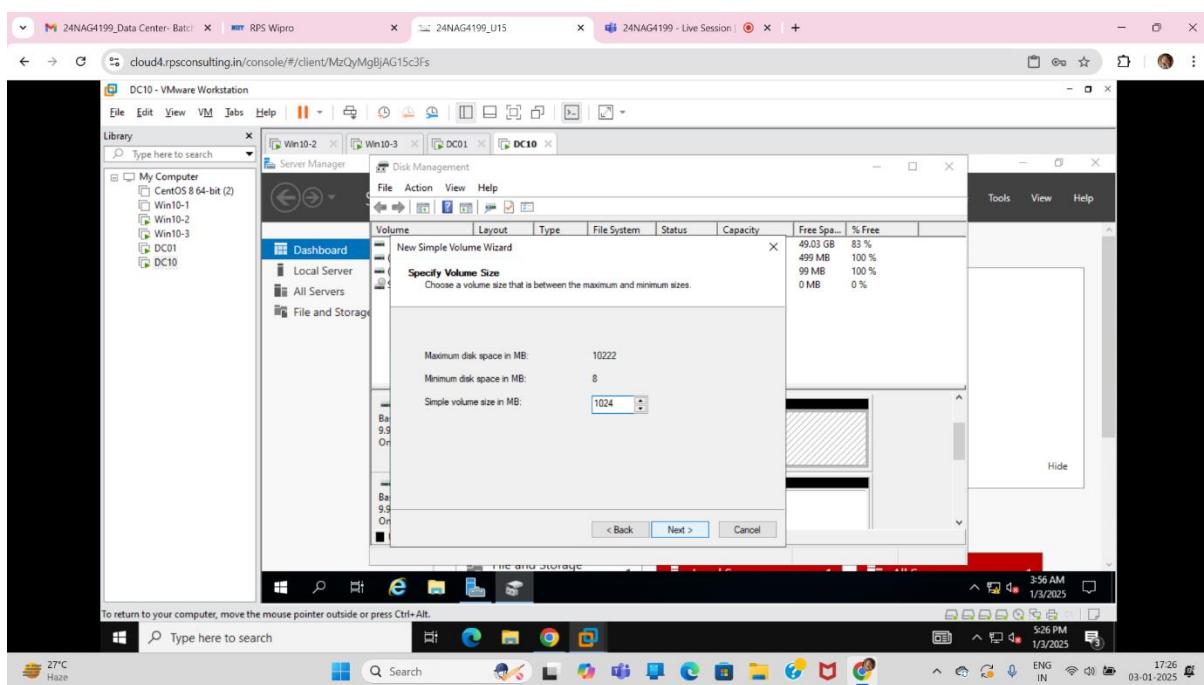
AND CLICK NEXT

IT DISPLAYS A NEW SAMPLE VOLUME WIZARD.



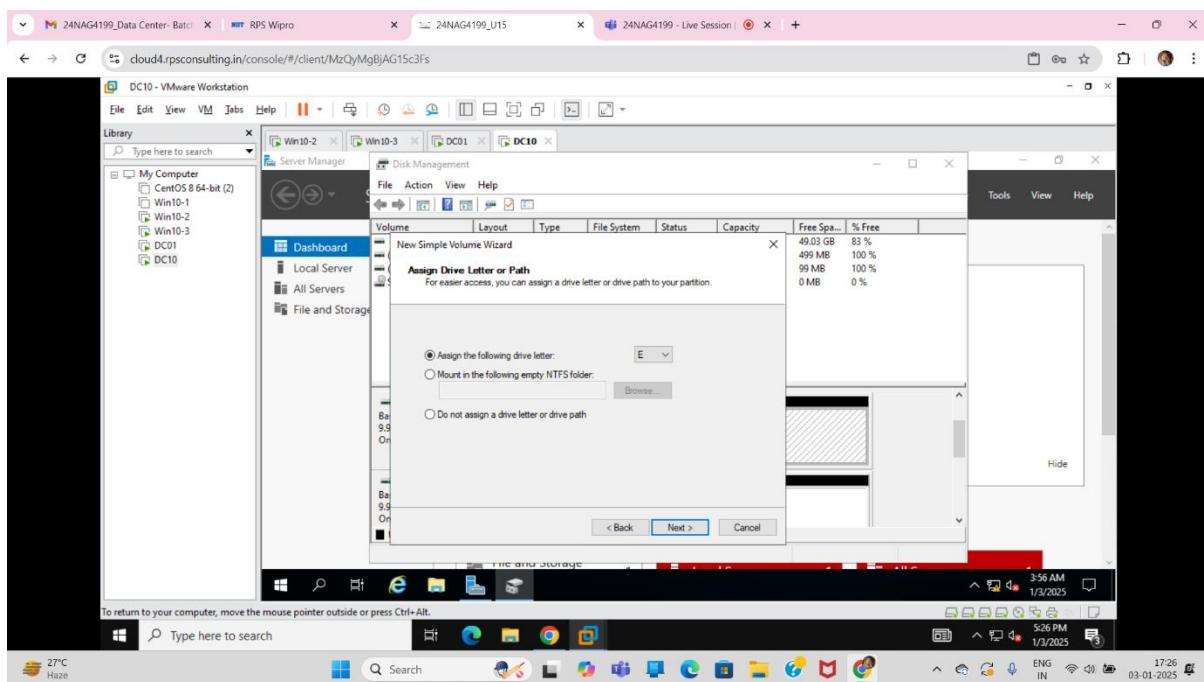
CLICK NEXT AND SELECT THE SIZE OF THE DISK

WIPRO ASSIGNMENT - 6



I HAVE TAKEN IT AS 1 GB. CLICK NEXT,

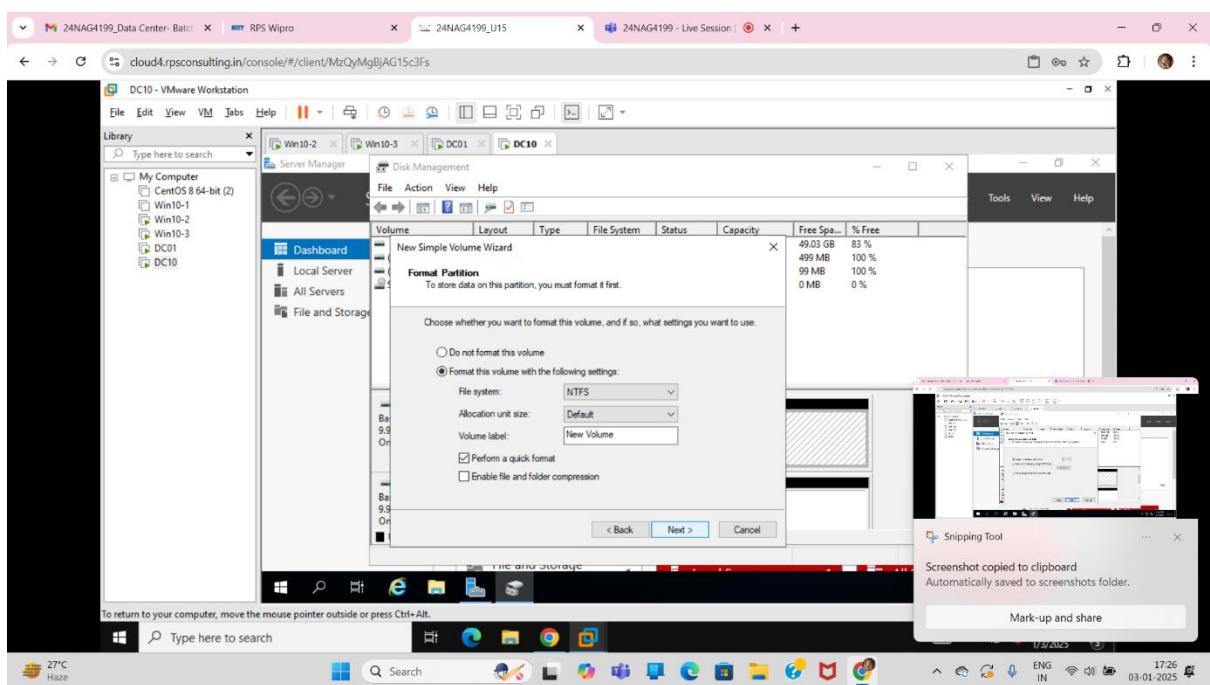
NOW WE HAVE TO SELECT THE NAME OF THE HARD DISK.



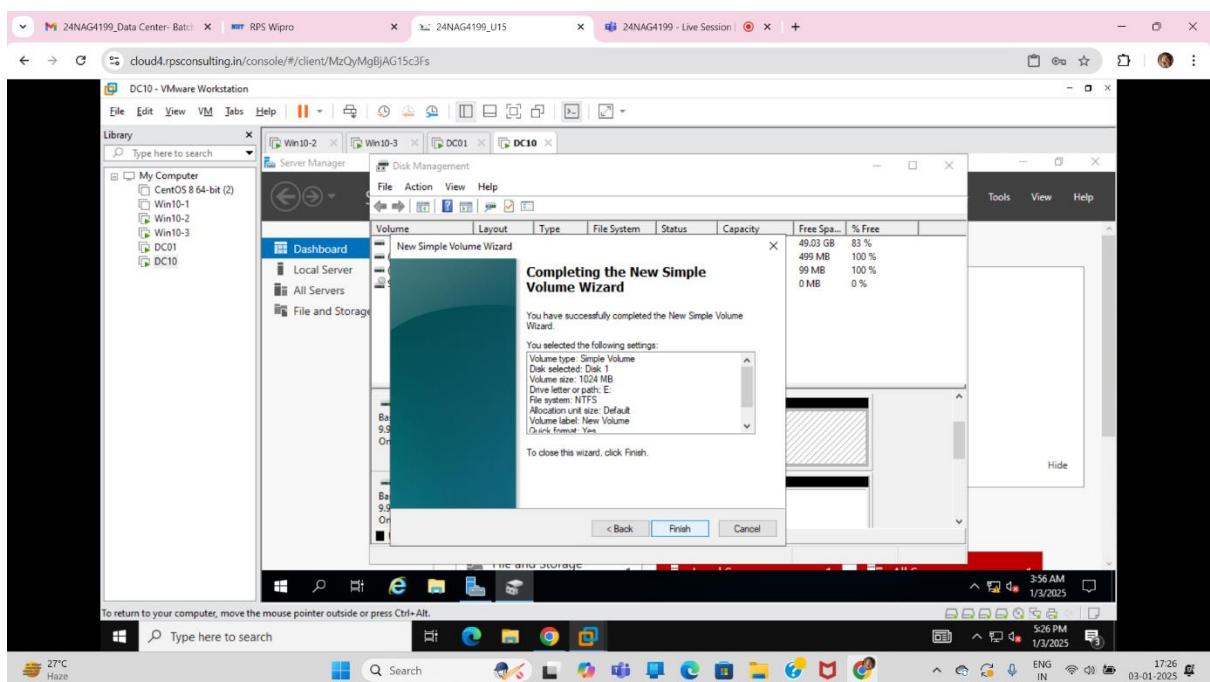
I HAVE TAKEN IT AS "E".

CLICK NEXT

WIPRO ASSIGNMENT - 6

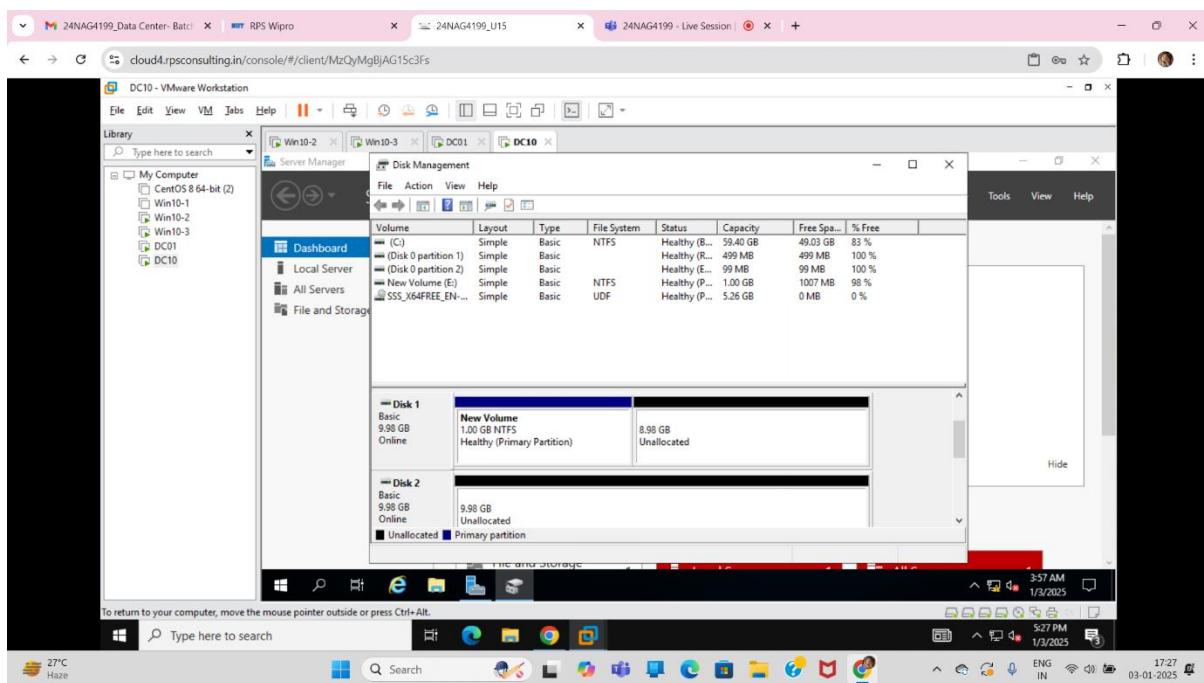


CLICK NEXT.



CLICK ON FINISH.

WIPRO ASSIGNMENT - 6



WE CAN SEE THAT THE 1GB WAS ALLOCATED TO THE SIMPLE VOLUME.

2.SPANNED VOLUME: THE VOLUME WHICH COMBINES FREE SPACE OF MULTIPLE DISKS

AND CREATING A VOLUME IS KNOWN AS SPANNED VOLUME.

* MINIMUM HARD DISK DRIVE : 2 HDD

* MAXIMUM HARD DISK DRIVE : 32 HDD

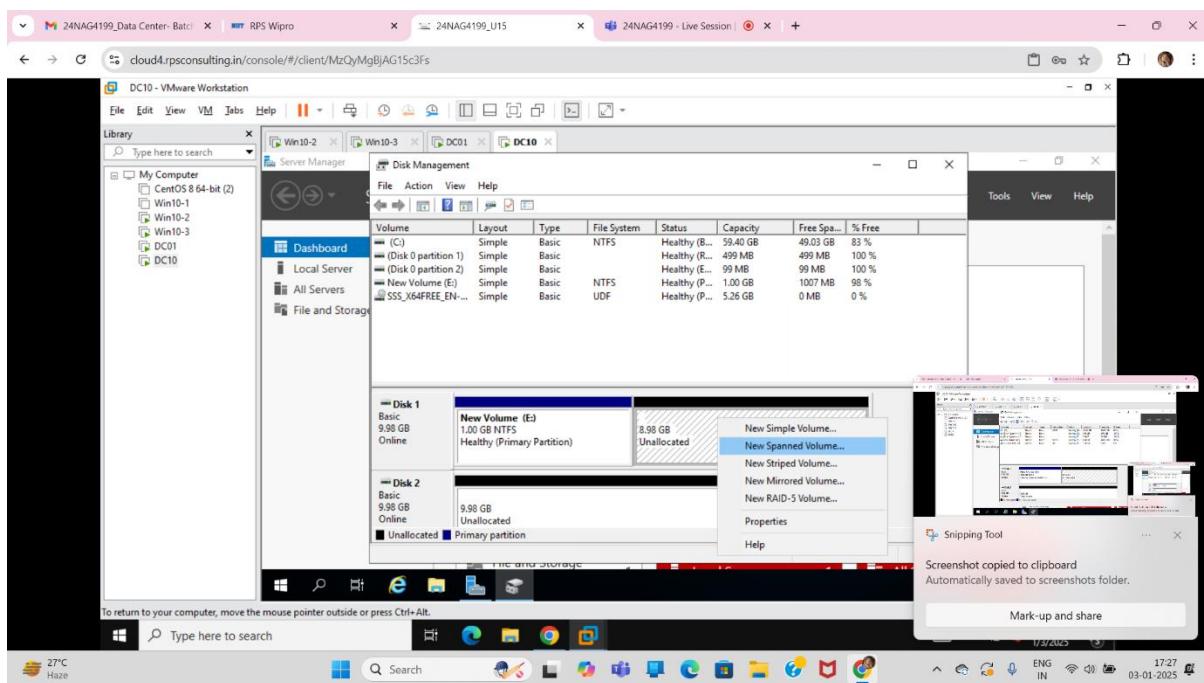
* PERFORMANCE : NO

* FAULT TOLERANCE : NO

NOW LET US DO IN THE VIRTUAL MACHINE,

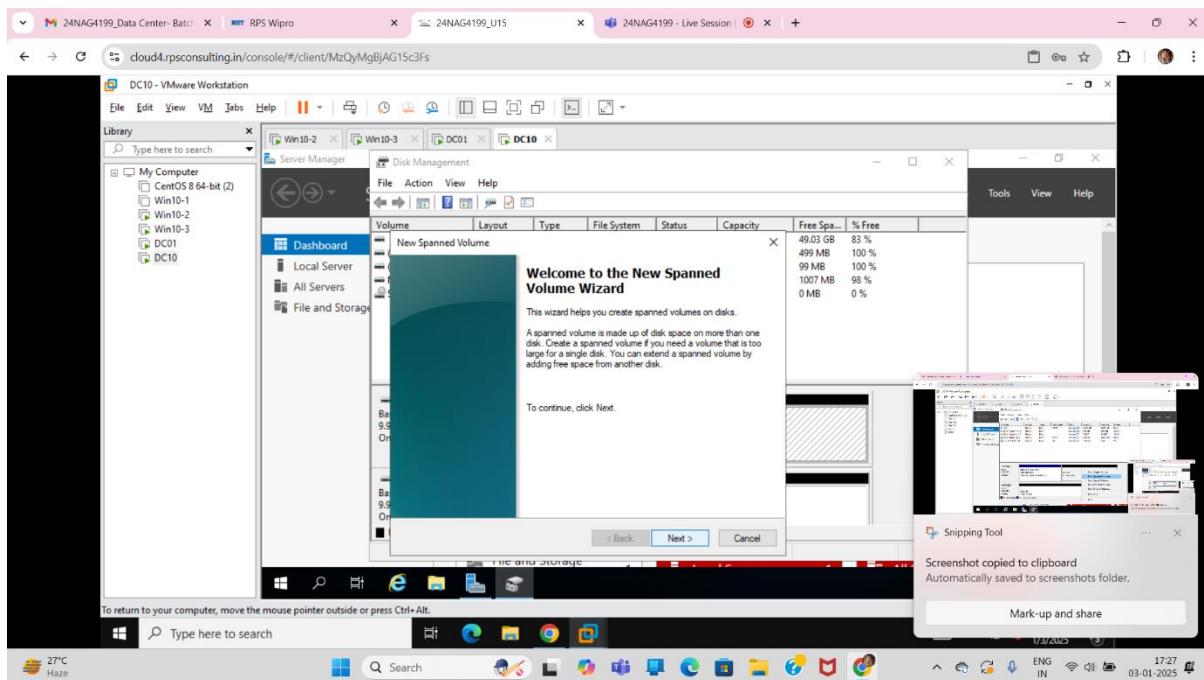
CLICK ON THE UNALLOCATED SPACE, GIVE THE RIGHT CLICK

WIPRO ASSIGNMENT - 6



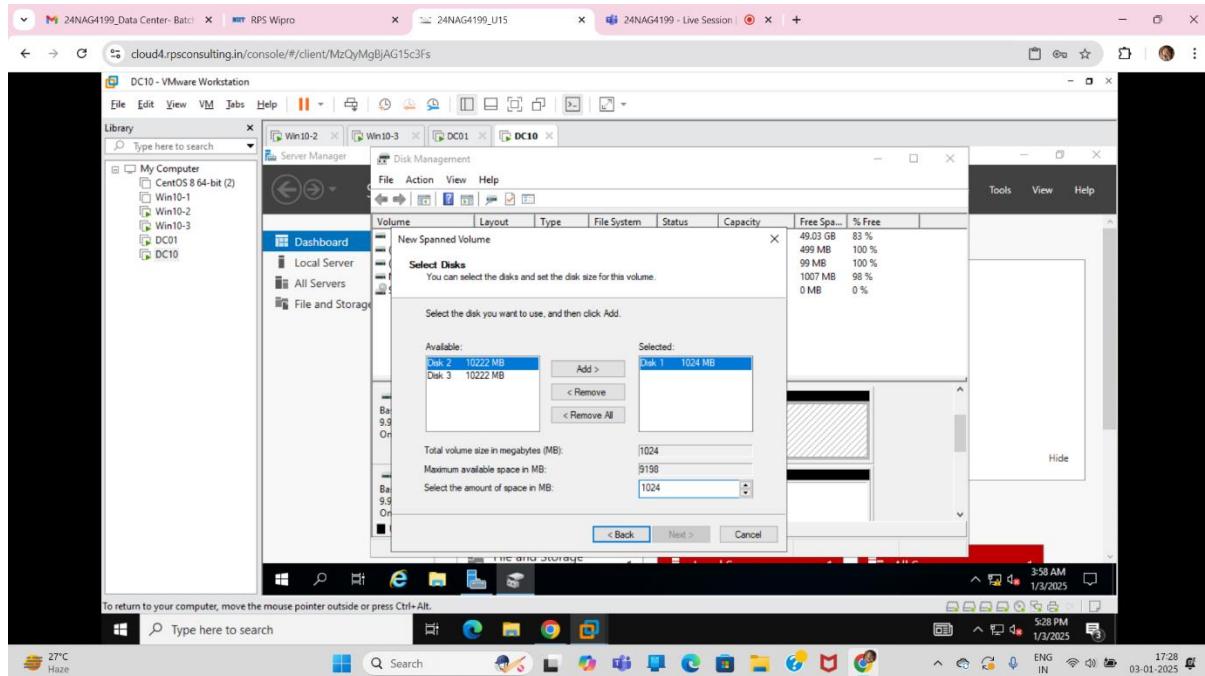
SELECT THE NEW SPANNED VOLUME,

IT DISPLAYS THE POP UP, CLICK ON NEXT.



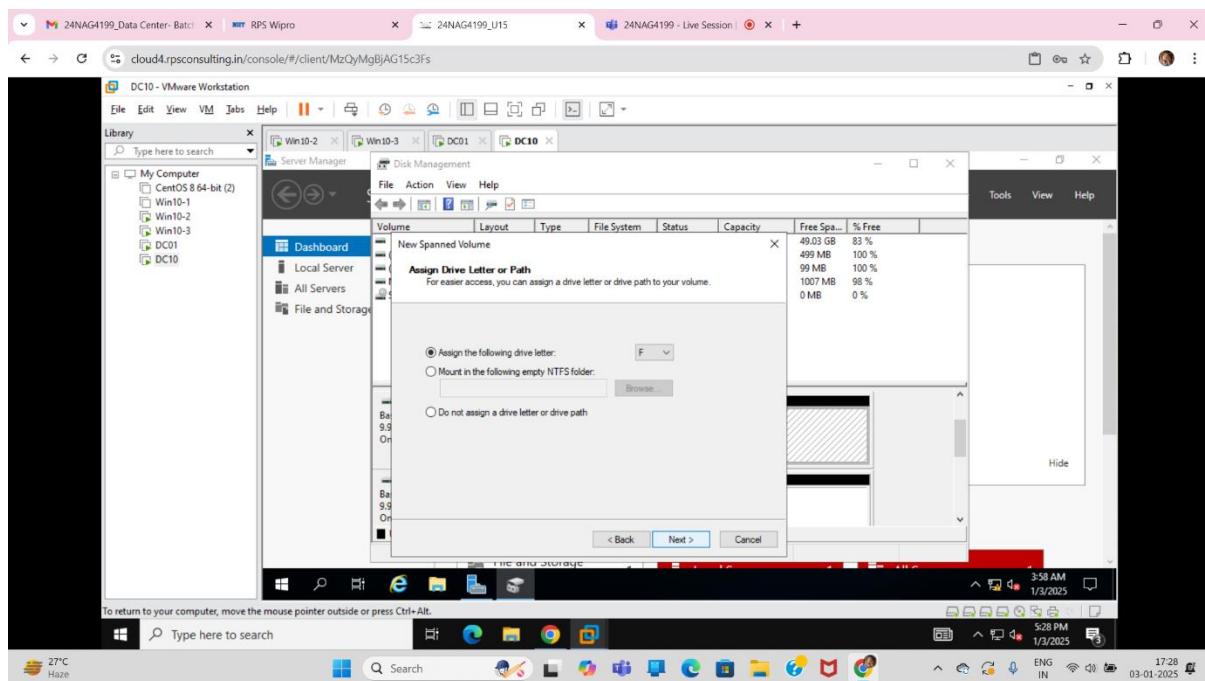
WIPRO ASSIGNMENT - 6

NOW WE NEED TO ADD DISK 2 IN THE SPACE BECAUSE THE MINIMUM CAPACITY FOR THIS VOLUME IS 2HDD.



NOW, SELECT THE AMOUNT OF SPACE IN MB AS 1024 AGAIN.

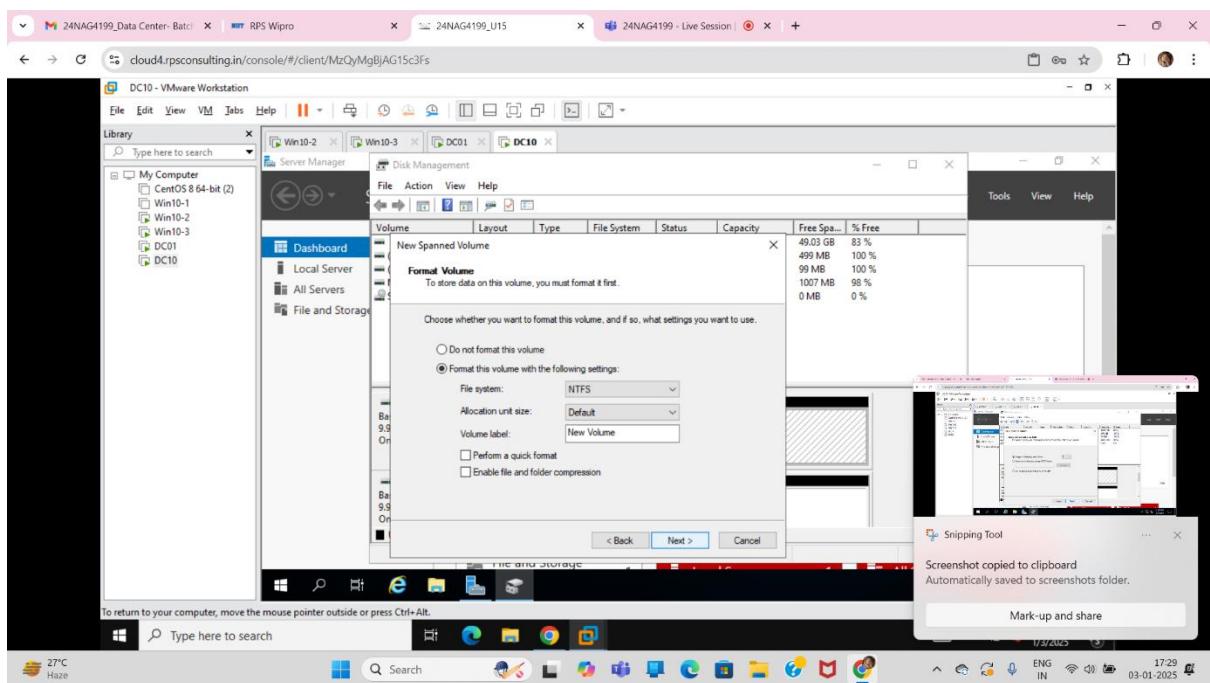
CLICK NEXT.



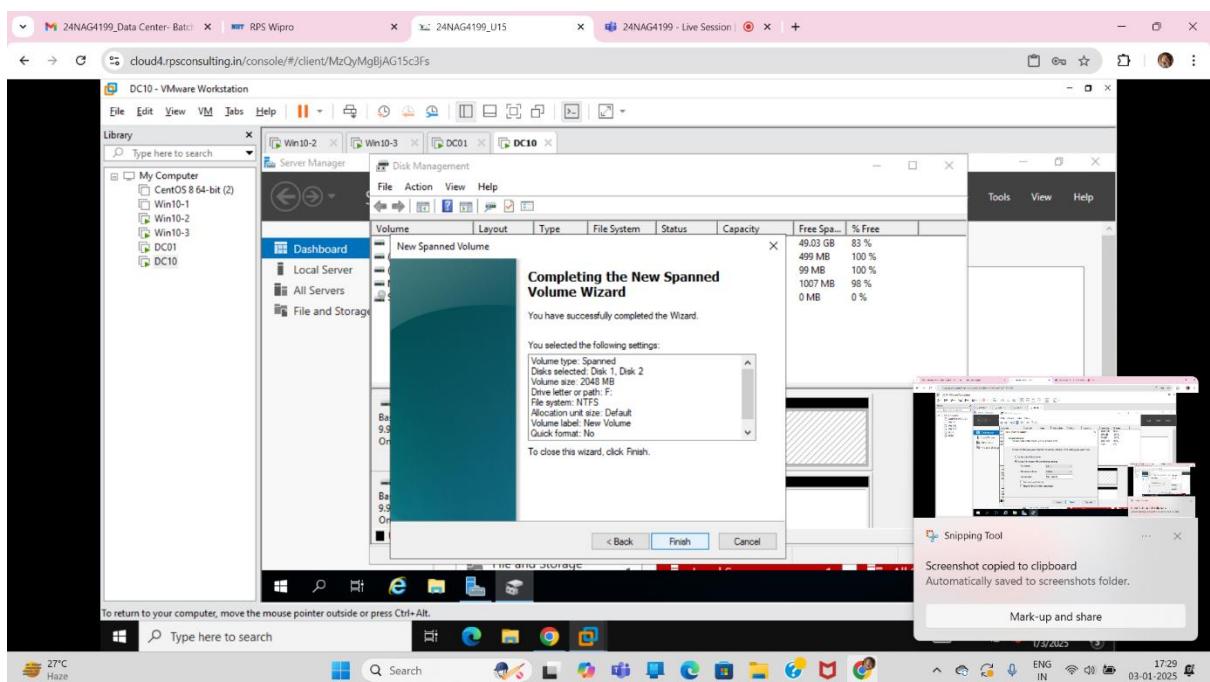
SAVING THIS FOLDER IN “F”

AND CLICK NEXT.

WIPRO ASSIGNMENT - 6



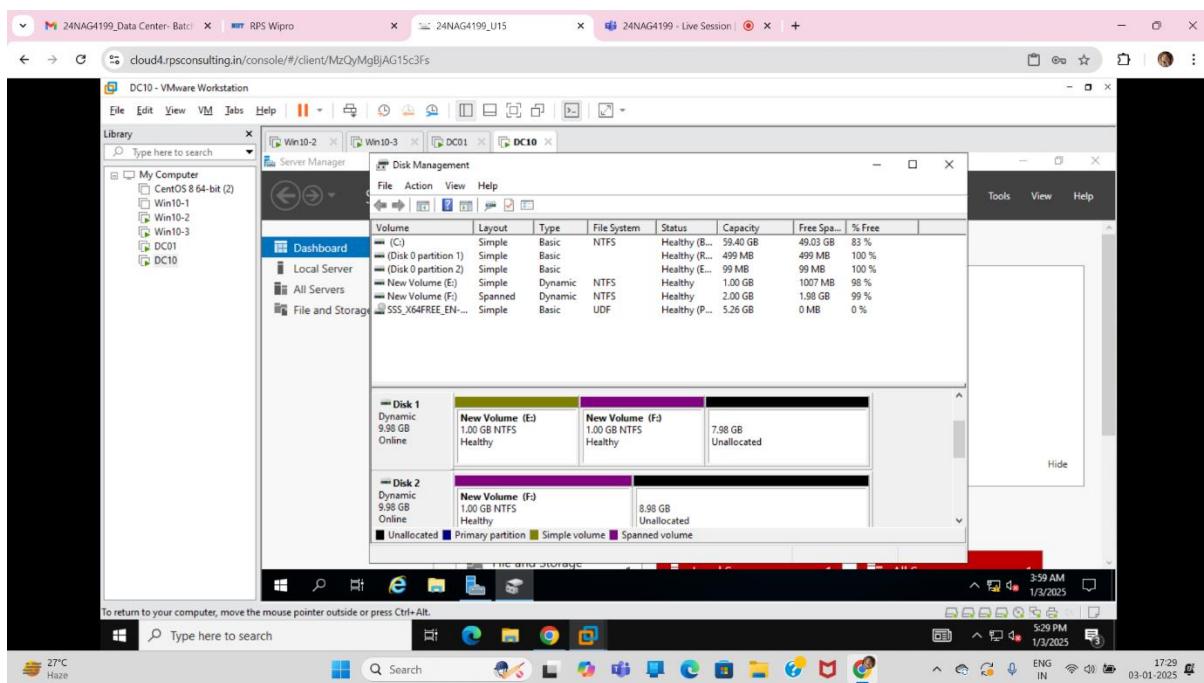
CLICK NEXT,



CLICK ON FINISH BUTTON.

NOW WE CAN SEE THAT THE SPANNED VOLUME IS ALLOCATED 1GB SPACE IN BOTH THE DISK 1 AND DISK 2.

WIPRO ASSIGNMENT - 6



3.STRIPED VOLUME: THE VOLUME WHICH STRIPES THE DATA INTO NUMBER OF DISKS AND READS/WRITES SIMULTANEOUSLY TO IMPROVE THE PERFORMANCE IS KNOWN AS STRIPED VOLUME.

THIS VOLUME IS A RAID 0.

* MINIMUM HARD DISK DRIVE : 2 HDD

* MAXIMUM HARD DISK DRIVE : 32 HDD

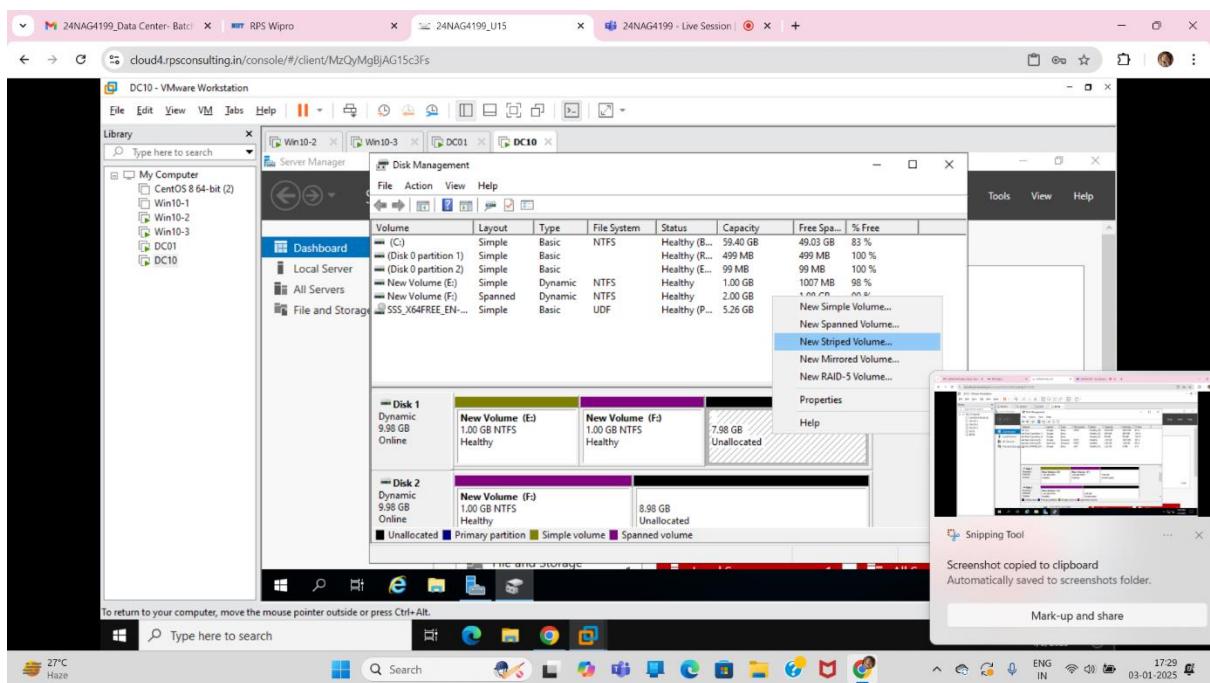
* PERFORMANCE : YES

* FAULT TOLERANCE : NO

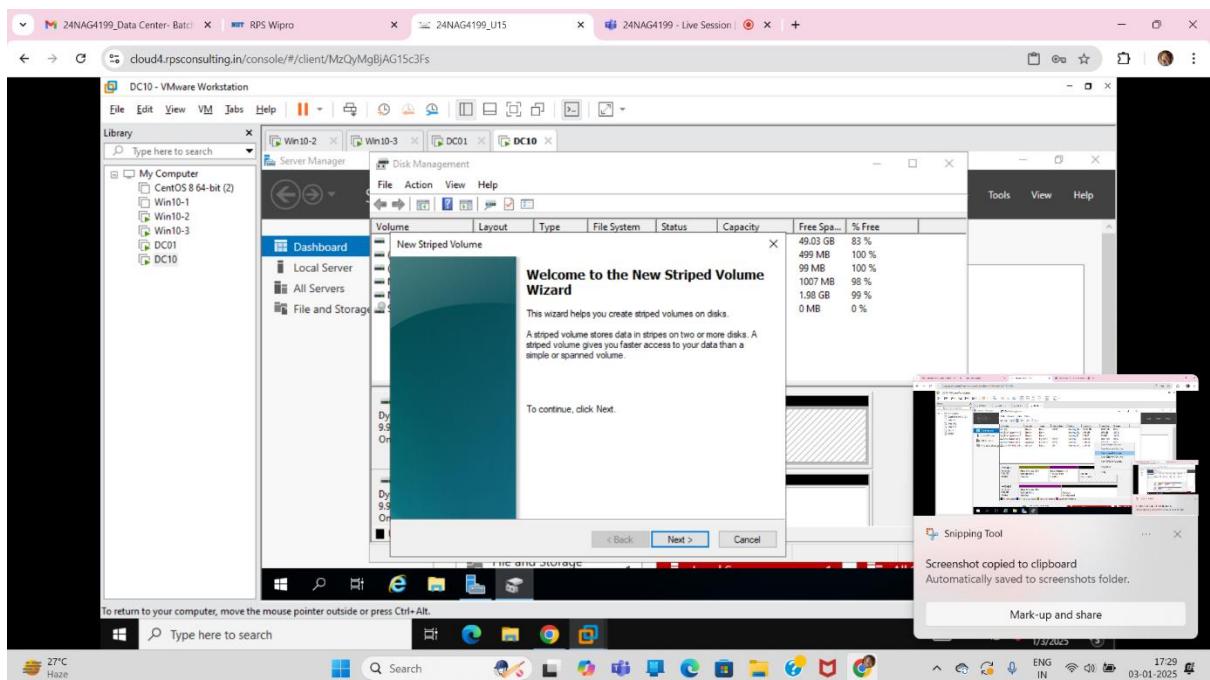
NOW LET US DO IN THE VIRTUAL MACHINE,

CLICK ON THE UNALLOCATED SPACE, GIVE THE RIGHT CLICK

WIPRO ASSIGNMENT - 6



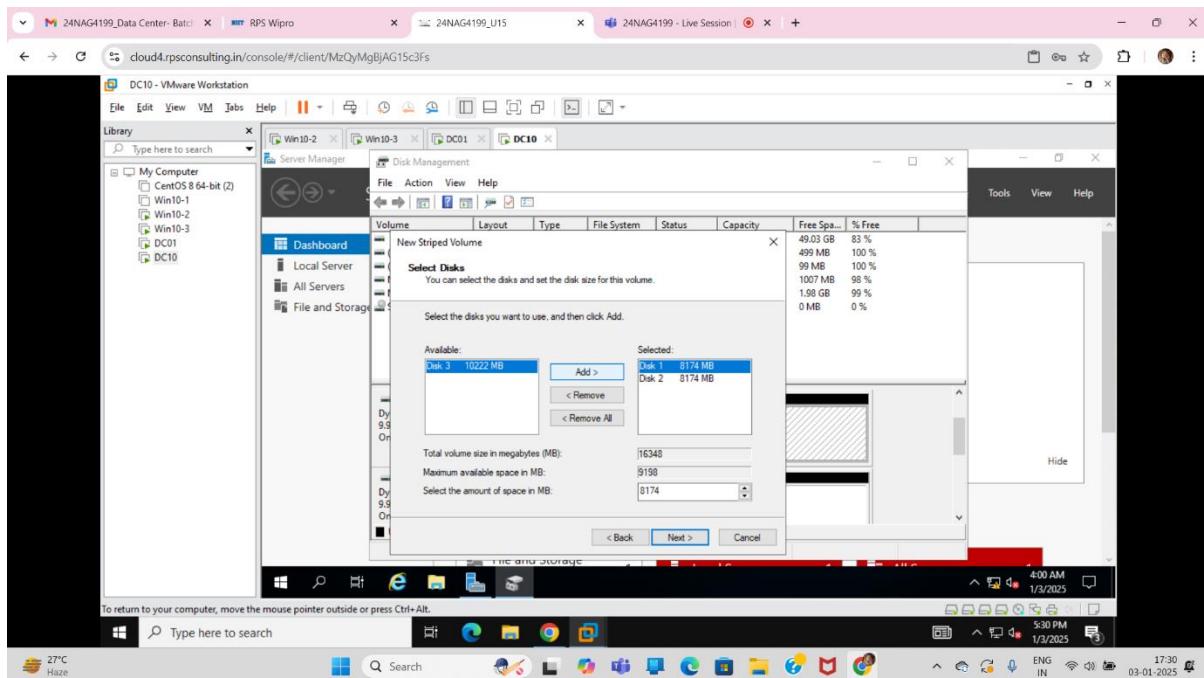
SELECT THE STRIPED OPTION, IT DISPLAYS THE POP UP AS SHOWN BELOW.



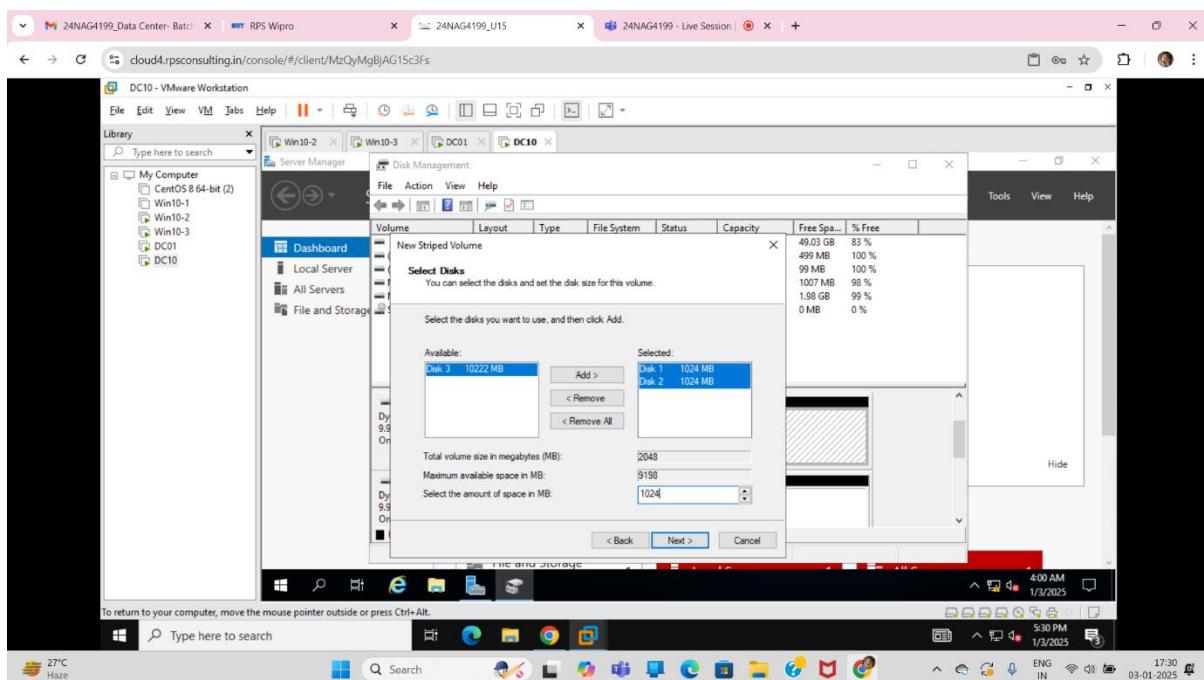
CLICK NEXT,

WIPRO ASSIGNMENT - 6

SELECT THE DISK 1 AND DISK 2.



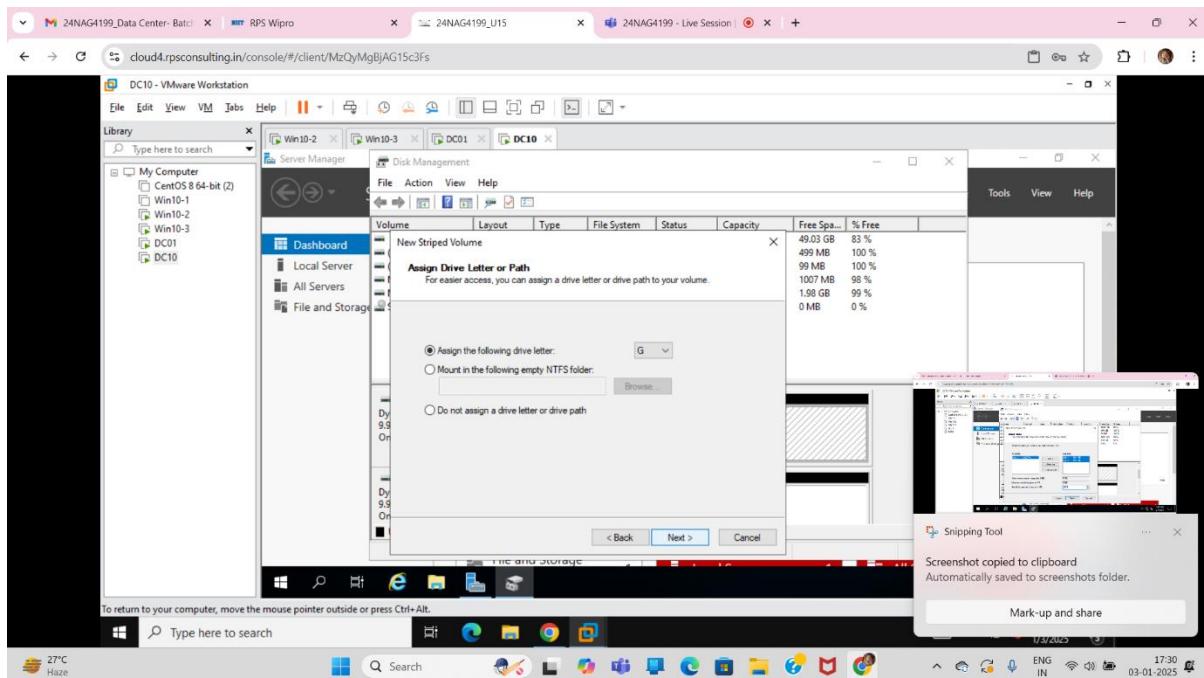
NOW GIVE THE AMOUNT OF SPACE AS 1024 MB THEN IT AUTOMATICALLY CHANGES FOR DISK 2 ALSO.



CLICK ON NEXT AGAIN

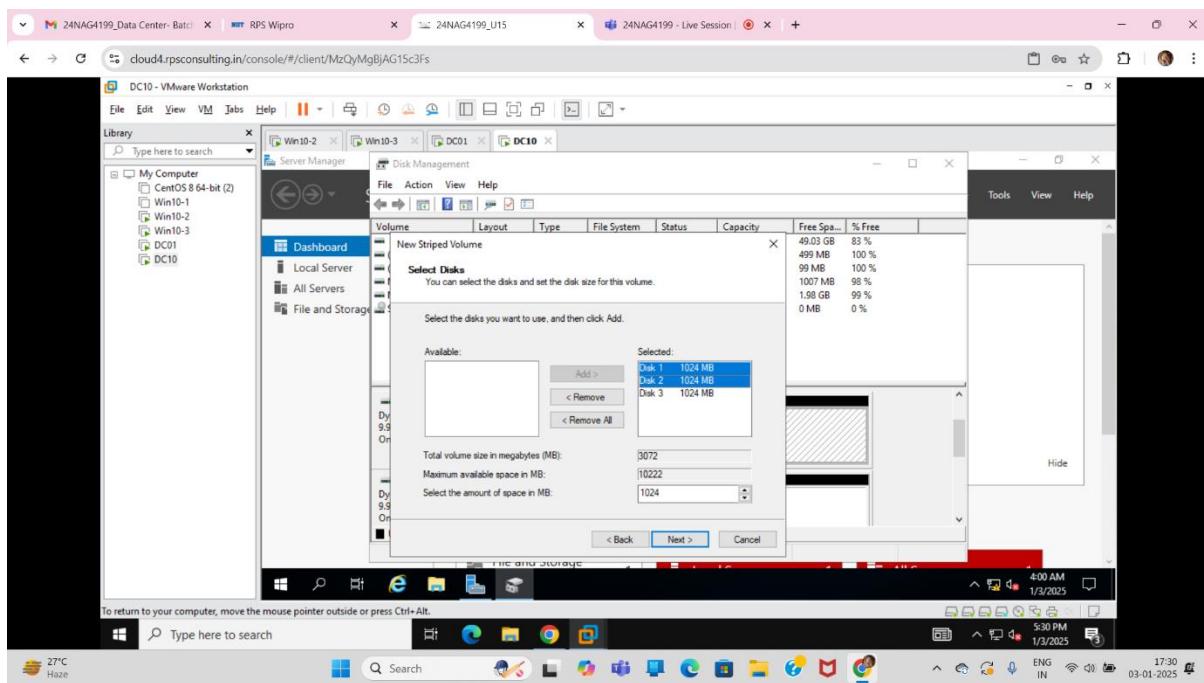
WIPRO ASSIGNMENT - 6

GIVE THE ADDRESS AS "G"



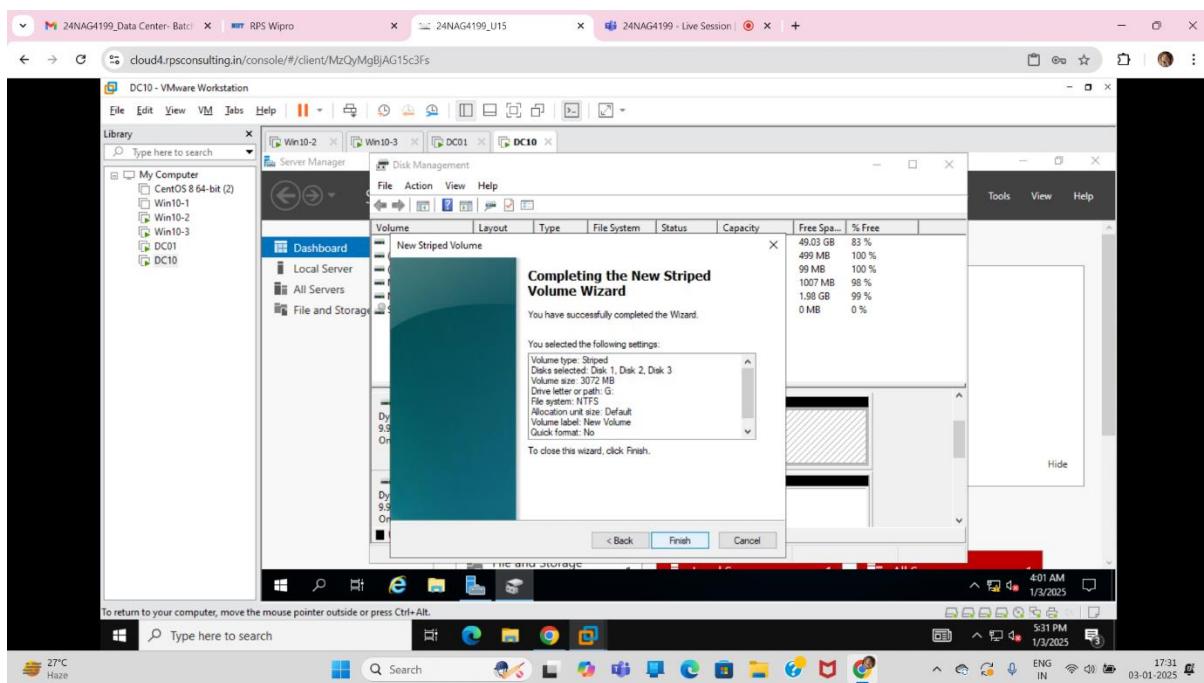
WE CAN ALSO ADD ANOTHER DISK IN THAT,

SEE NOW, I AM ADDING THE DISK 3 AND BY DEFAULT IT ALLOCATES THE SAME DISKS SPACE.

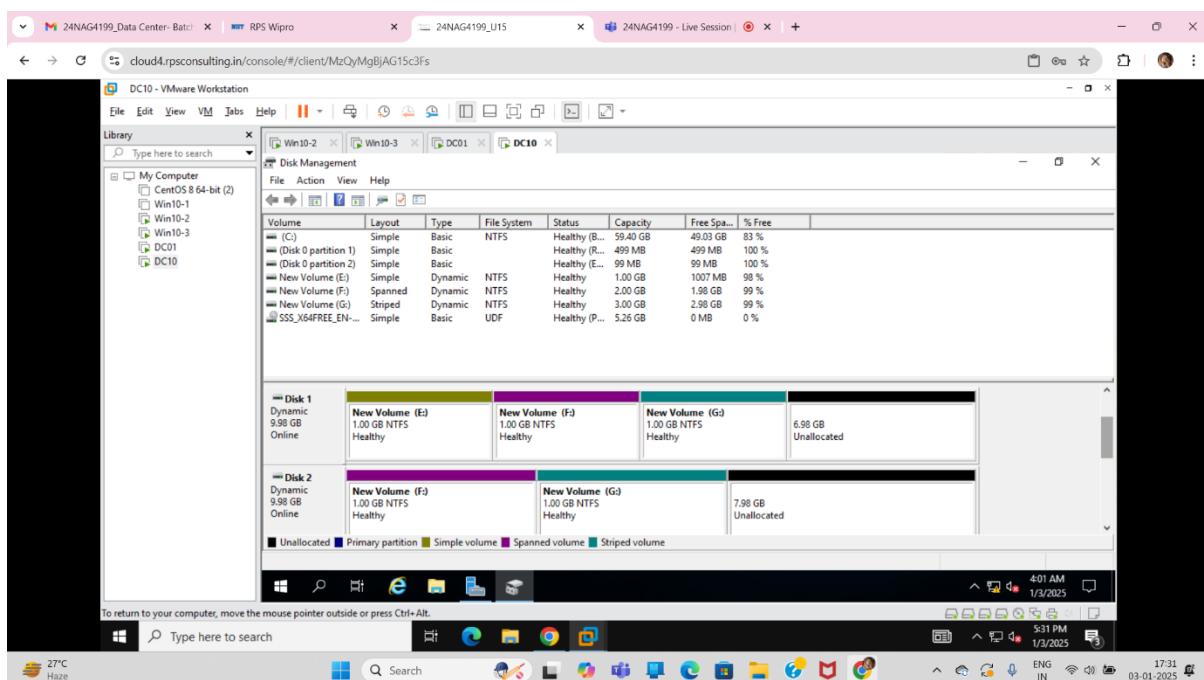


CLICK ON NEXT AGAIN

WIPRO ASSIGNMENT - 6

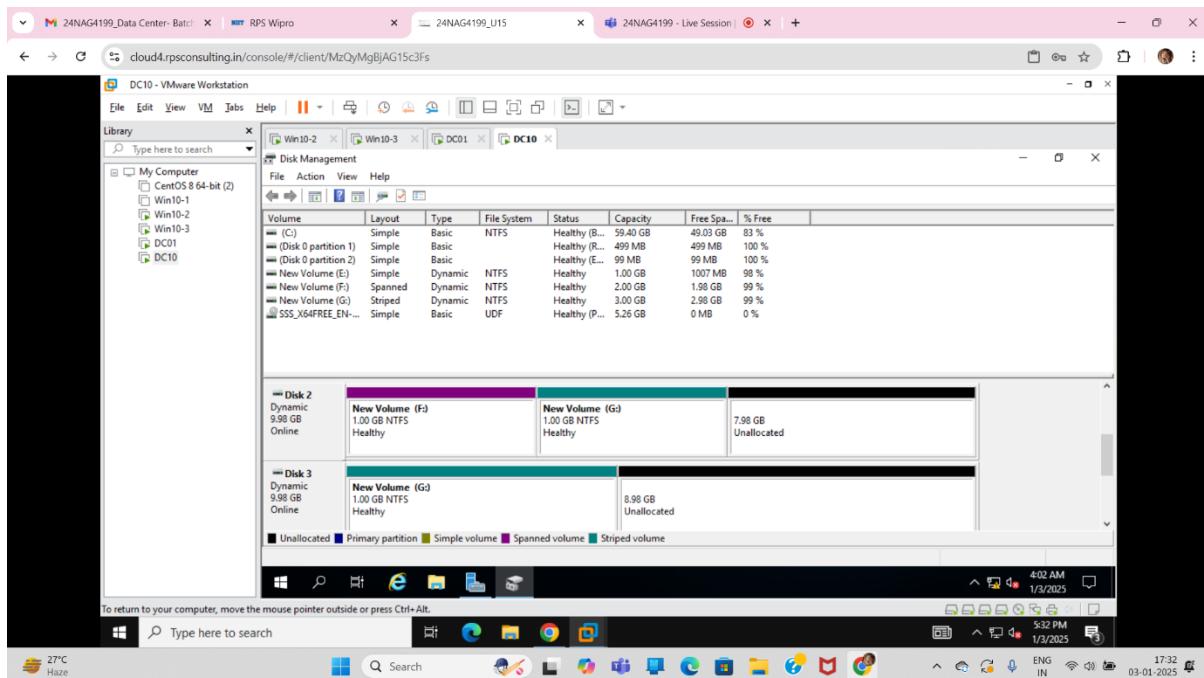


CLICK FINISH.



WE CAN SEE THAT THE ALLOCATION OF THE SPACE IN THE DISK 1, DISK 2 HERE IN THE ABOVE PICTURE.

AND IN DISK3 .



4.MIRRORED VOLUME: IT IS A FAULT TOLERANT VOLUME THAT USES THE COPYING OF SAME VOLUME TO STORE THE DATA.

THIS VOLUME IS A RAID 1.

*** MINIMUM HARD DISK DRIVE : 2 HDD**

*** MAXIMUM HARD DISK DRIVE : 32 HDD**

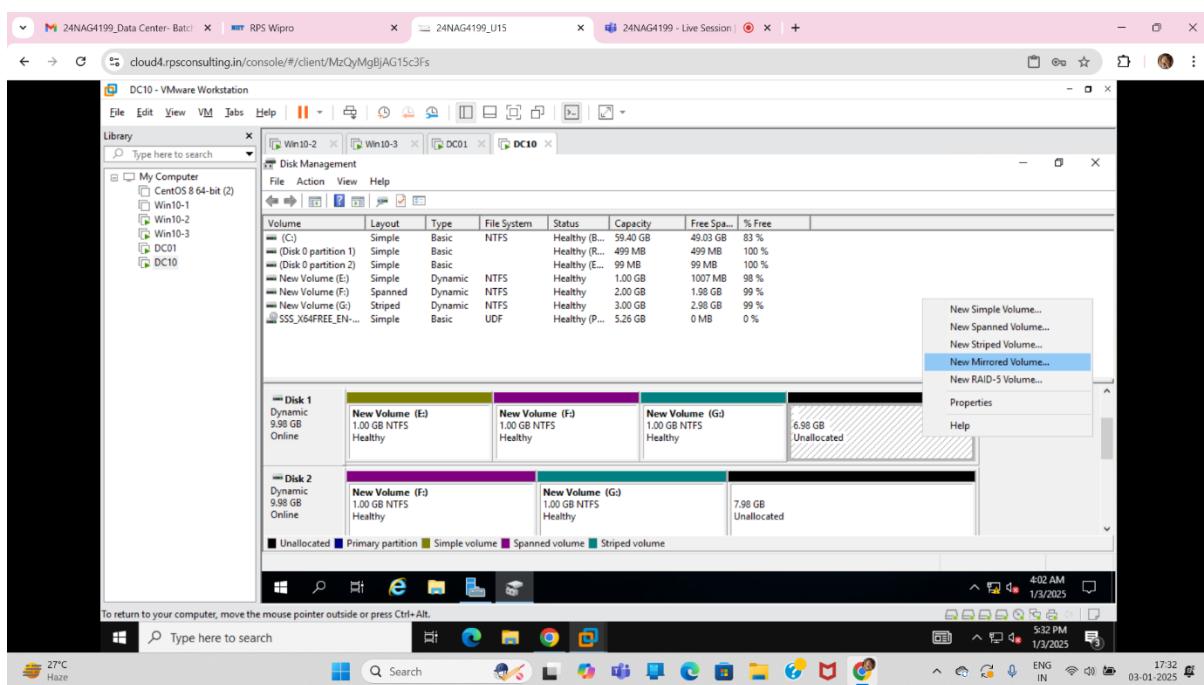
*** PERFORMANCE : YES**

*** FAULT TOLERANCE : NO**

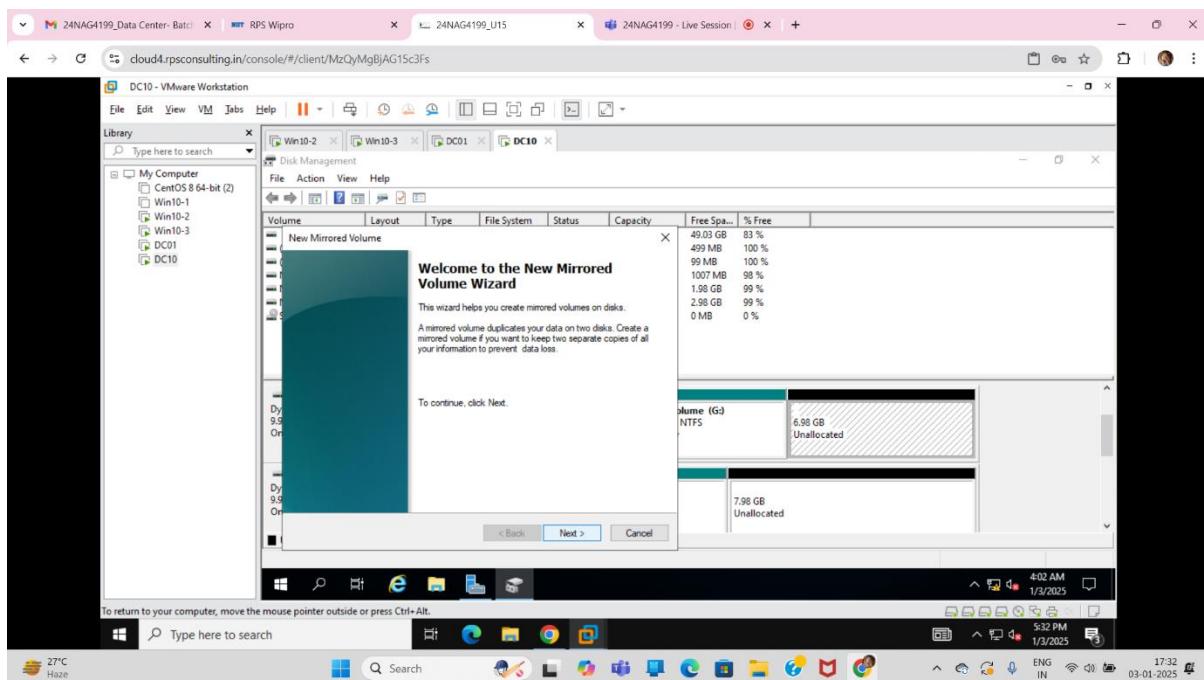
NOW LET US DO IN THE VIRTUAL MACHINE,

CLICK ON THE UNALLOCATED SPACE, GIVE THE RIGHT CLICK

WIPRO ASSIGNMENT - 6

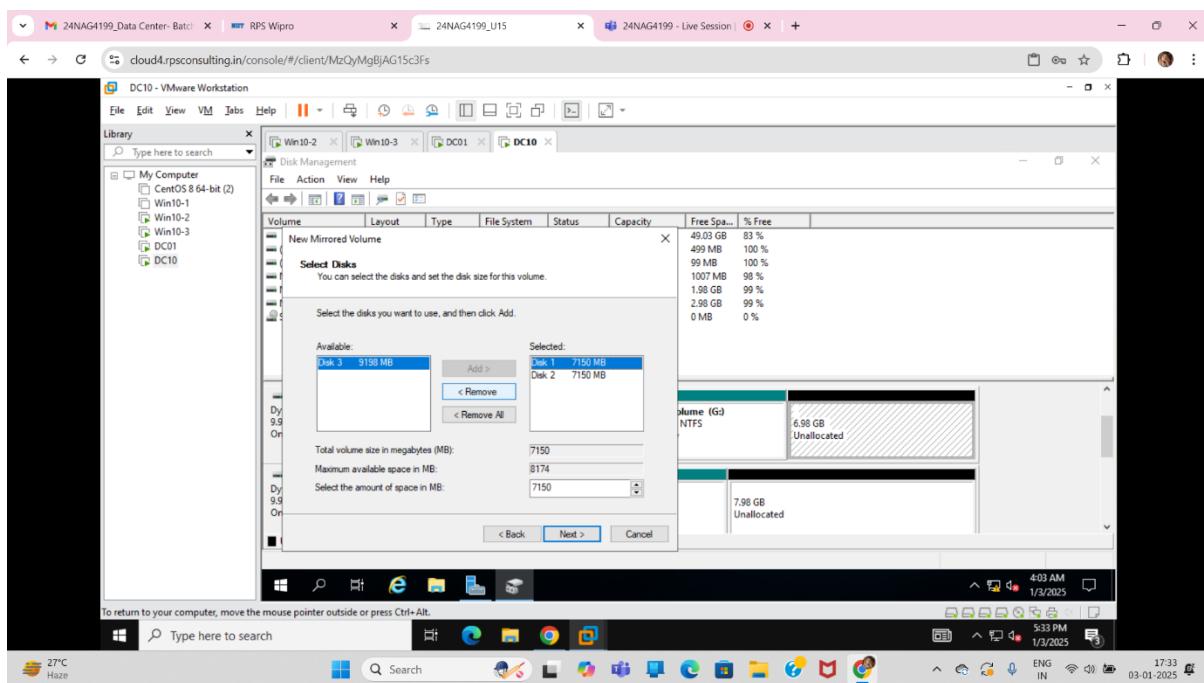


SELECT THE NEW MIRRORED VOLUME OPTION,

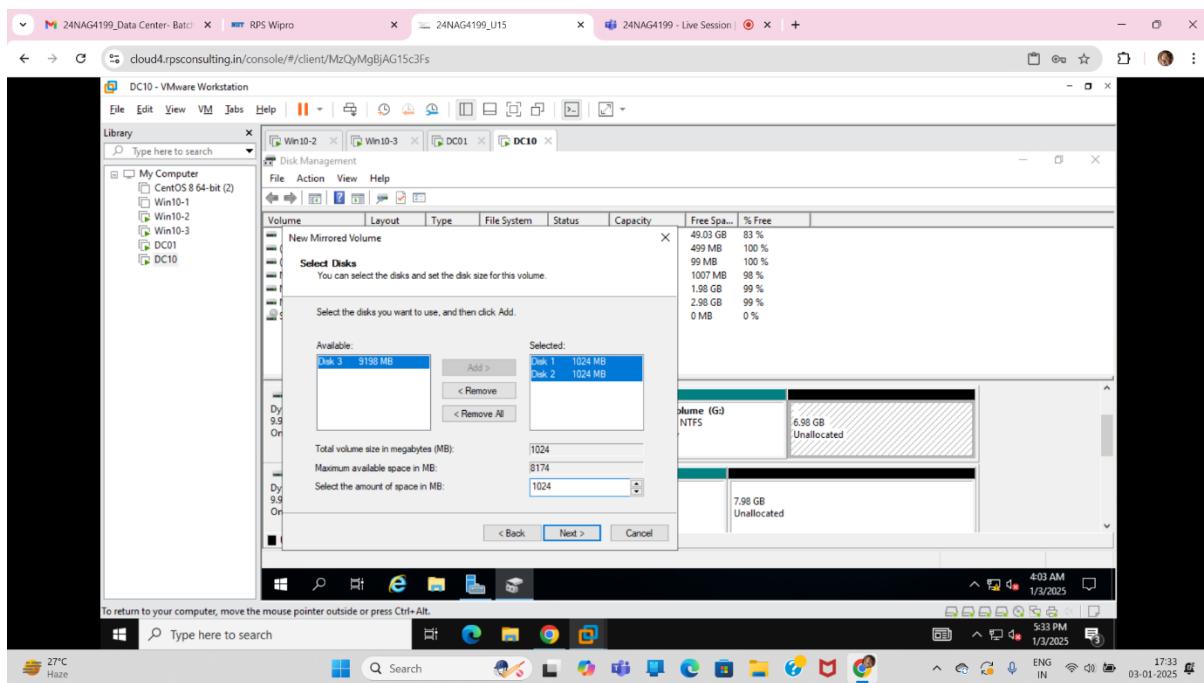


CLICK ON NEXT

WIPRO ASSIGNMENT - 6

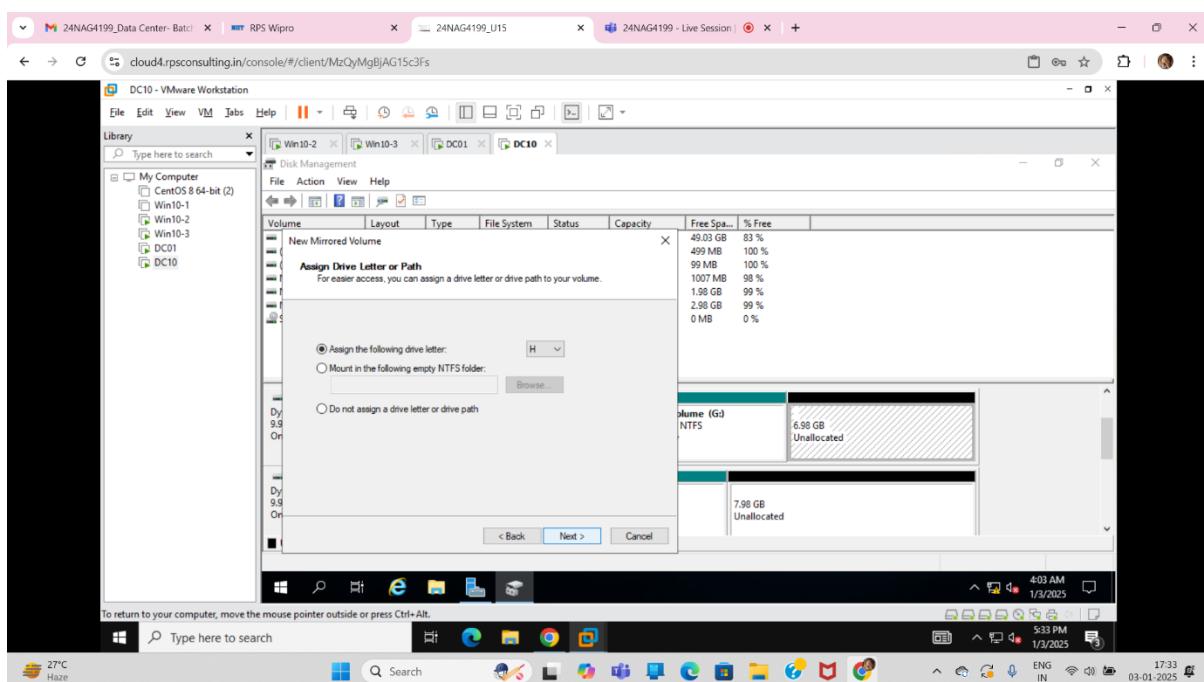


ADD THE DISKS AND SELECT THE AMOUNT OF SPACE.



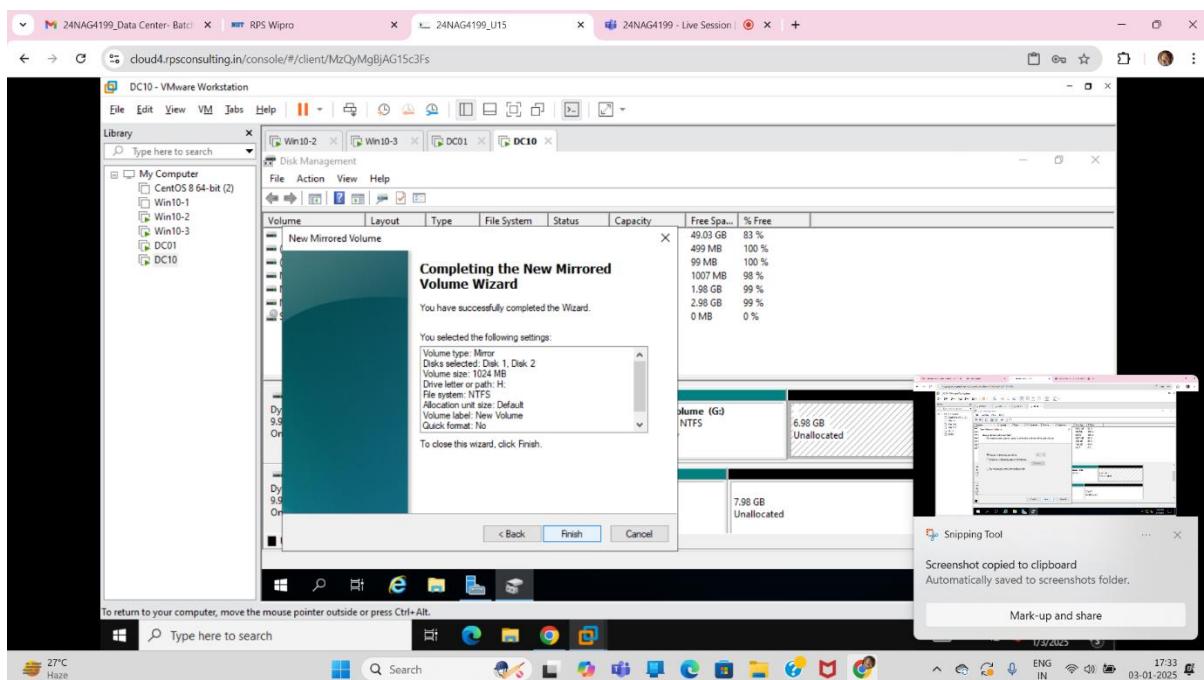
CLICK NEXT

WIPRO ASSIGNMENT - 6



BY DEFAULT IT TAKES THE "H" DRIVE,

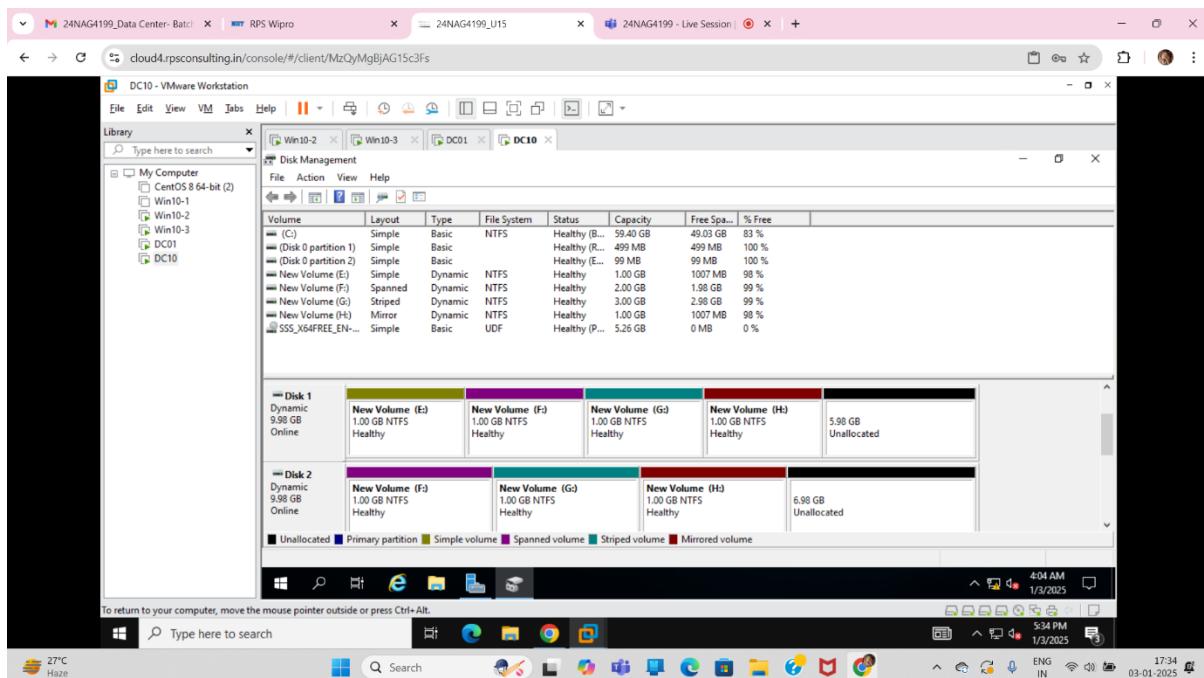
CLICK NEXT.



CLICK ON FINISH.

WE CAN SEE THAT THE SPACE HAS BEEN ALLOCATED FOR THE MIRRORED VOLUME.

WIPRO ASSIGNMENT - 6



5.RAID-5 VOLUME: IT IS A STORAGE VOLUME THAT USES A MINIMUM OF THREE HARD

DRIVES TO PROVIDE DATA PROTECTION AND STORAGE CAPACITY.

IT STORES THE DATA IN BOTH THE DISK 1 AND DISK 2 AND STORES THE PARITY BITS

OF THE DATA IN THE OTHER DISK.

IT IS SUPPORTED ONLY IN SERVERS.

THIS VOLUME IS A RAID 5.

* MINIMUM HARD DISK DRIVE : 3 HDD

* MAXIMUM HARD DISK DRIVE : 32 HDD

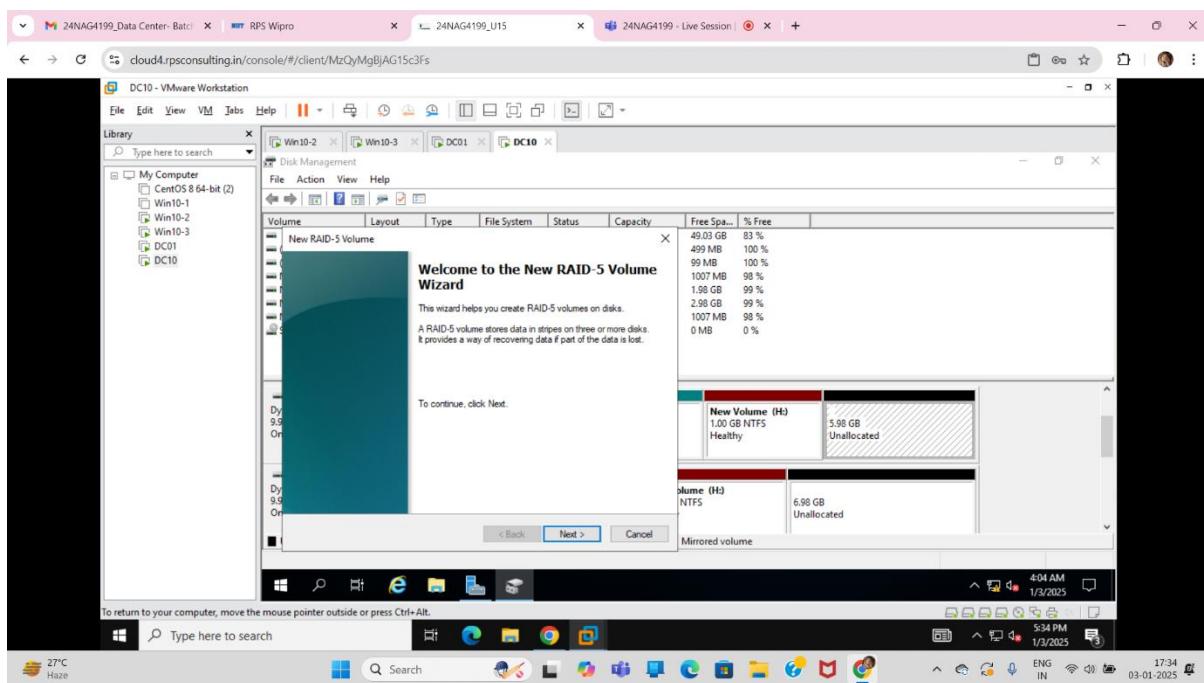
* PERFORMANCE : YES

* FAULT TOLERANCE : YES

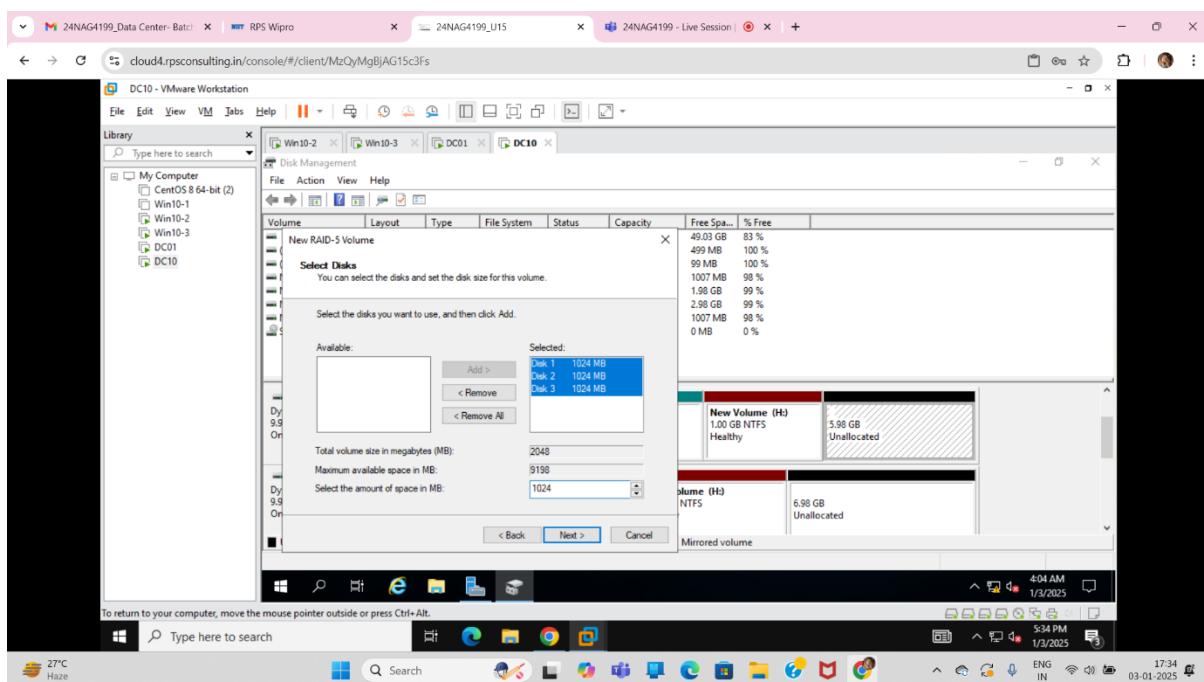
NOW LET US DO IN THE VIRTUAL MACHINE,

CLICK ON THE UNALLOCATED SPACE, GIVE THE RIGHT CLICK

WIPRO ASSIGNMENT - 6



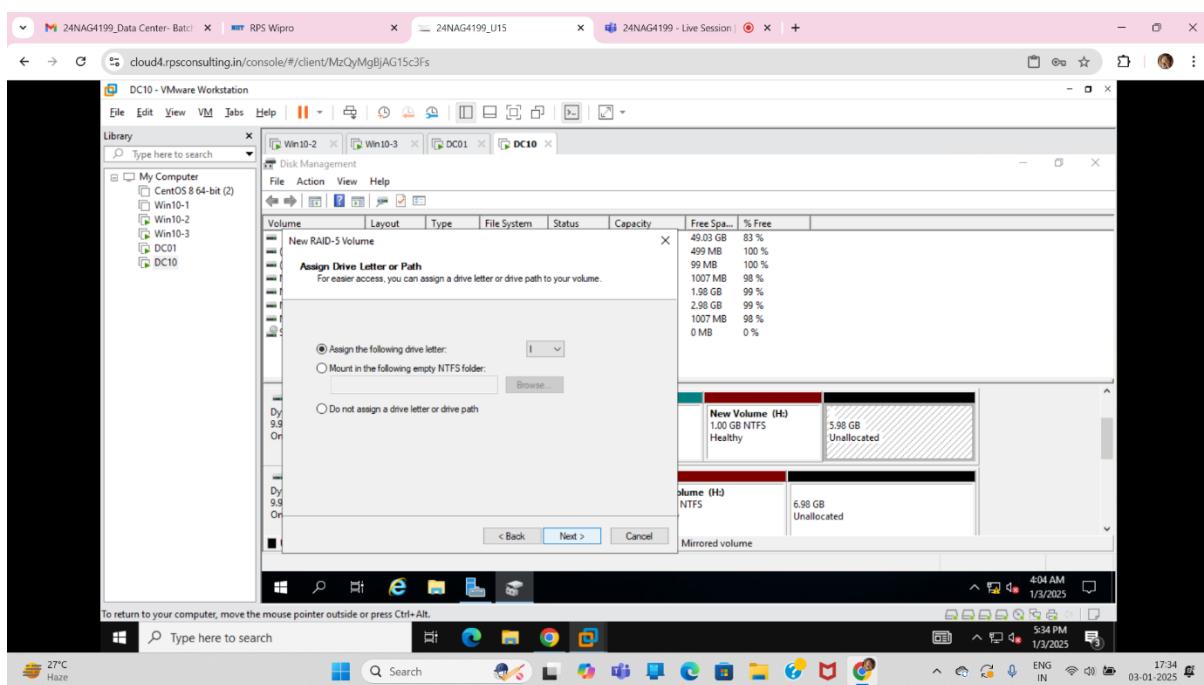
CLICK NEXT,



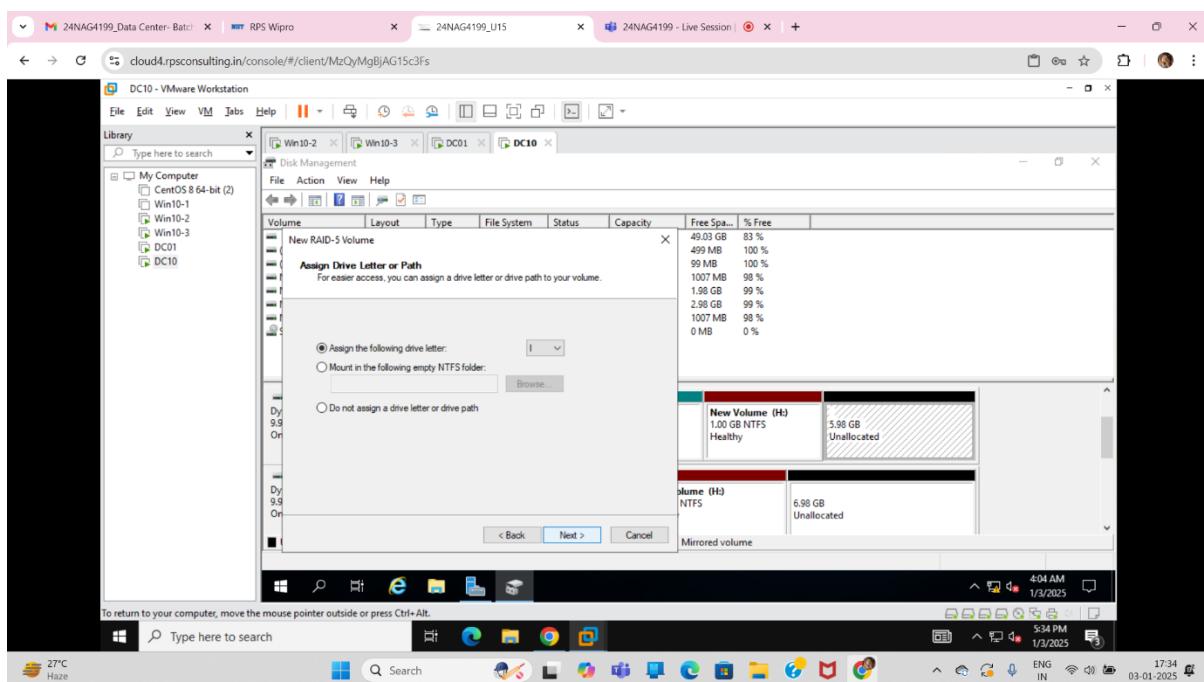
SELECT THE 3 DISKS AND GIVE THE AMOUNT OF SPACE IN MB.

CLICK NEXT,

WIPRO ASSIGNMENT - 6

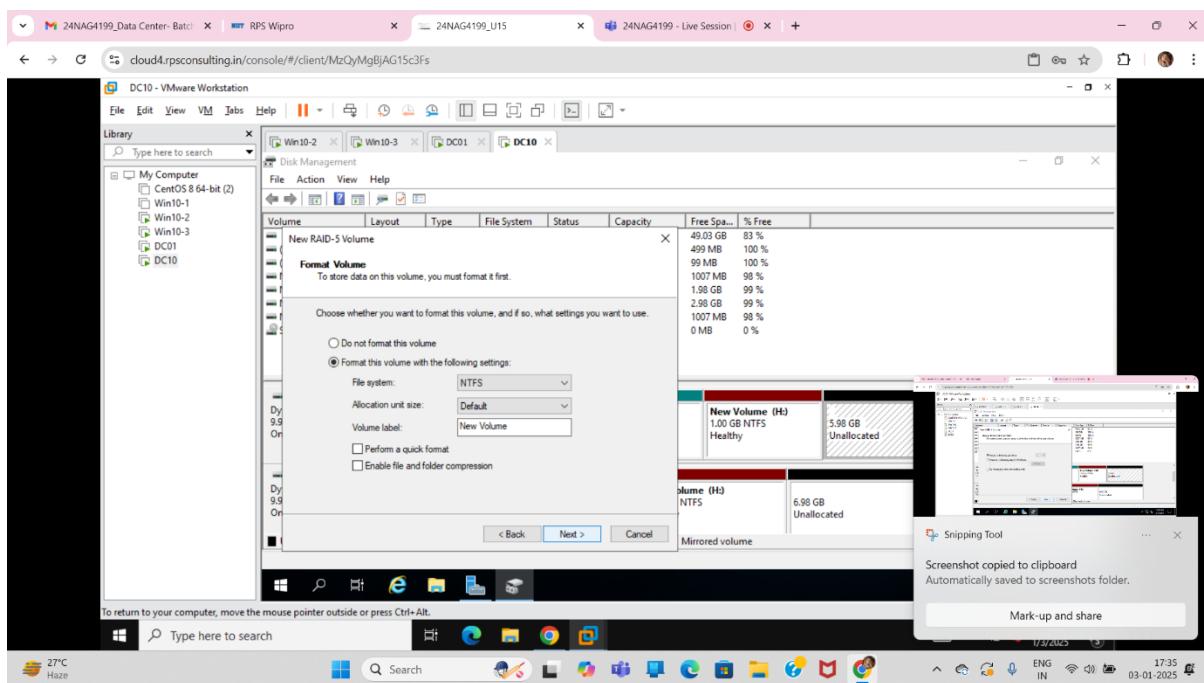


CLICK NEXT.

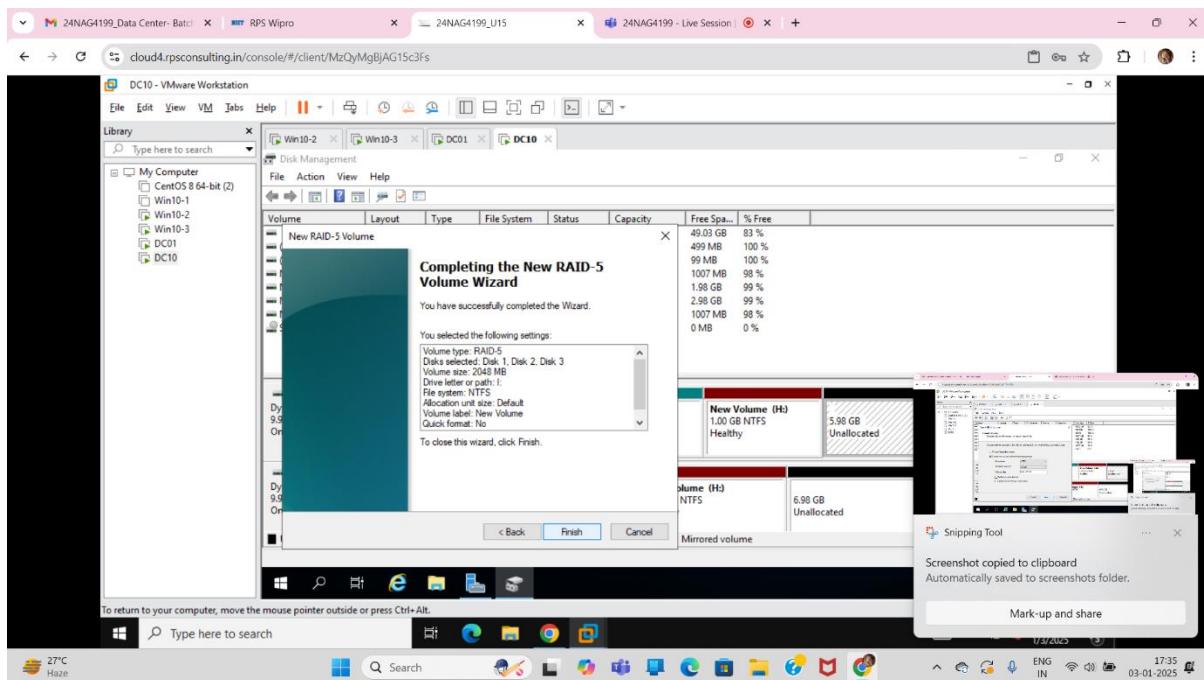


IT IS STORING IN THE "I" DRIVE.

WIPRO ASSIGNMENT - 6



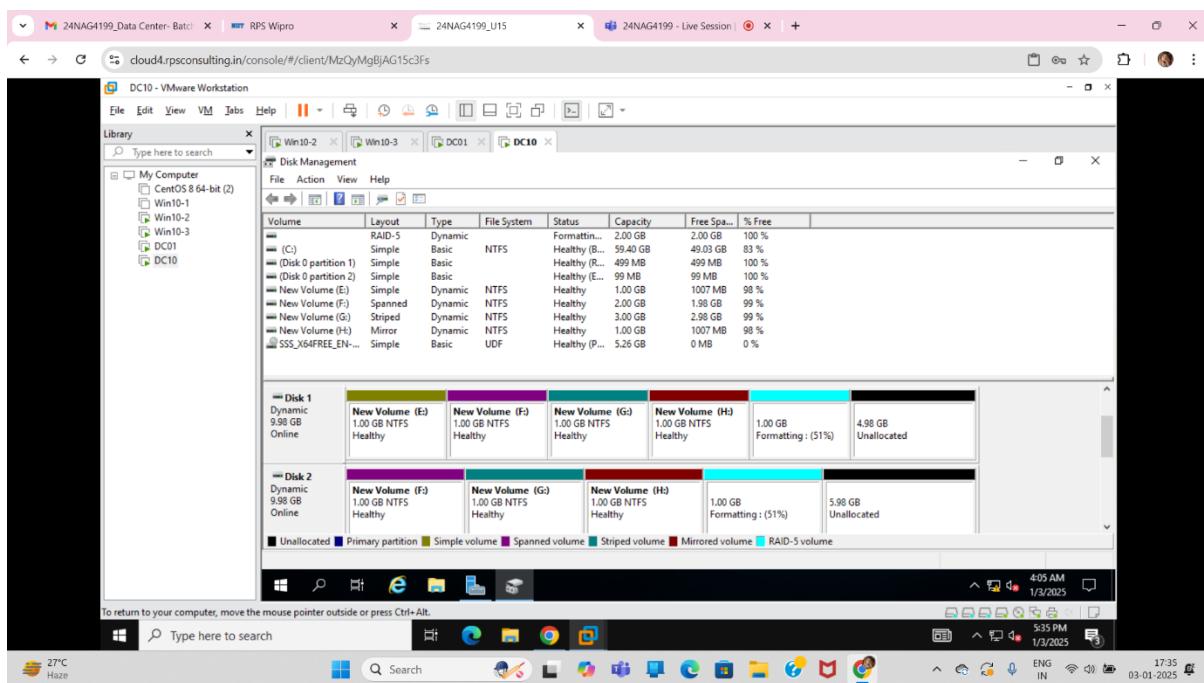
CLICK NEXT.



CLICK FINISH.

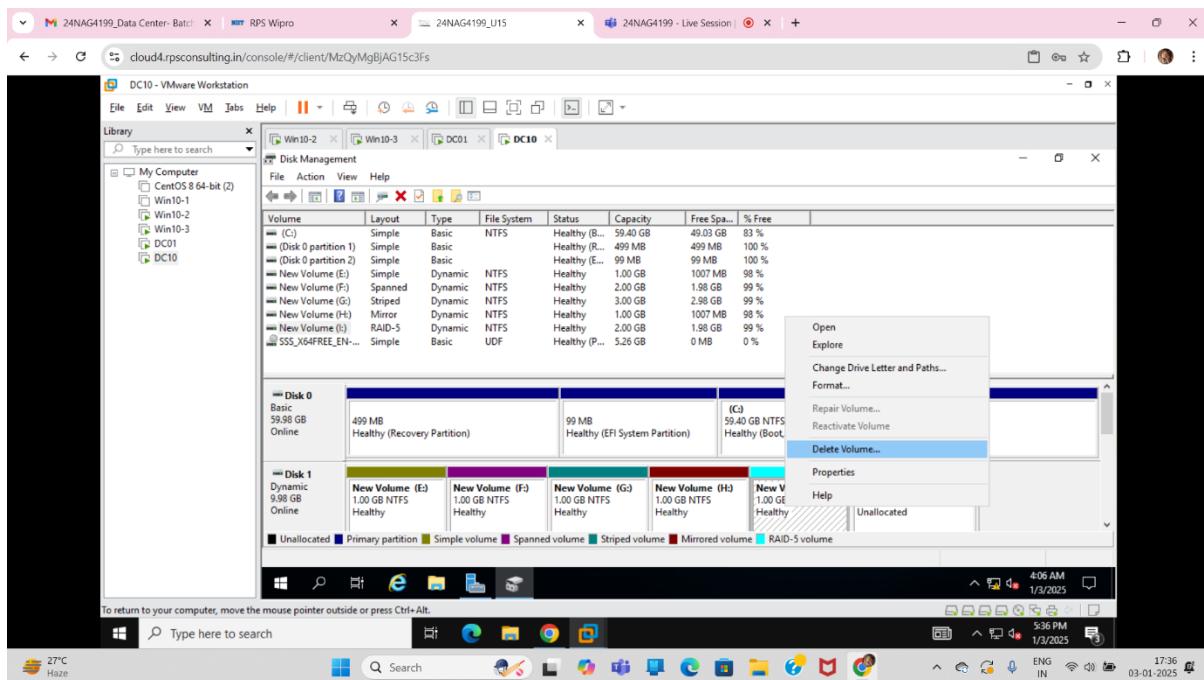
WE CAN SEE THAT THE ALL THE VOLUMES ARE OCCUPIED IN THE DIFFERENT COLOURS.

WIPRO ASSIGNMENT - 6



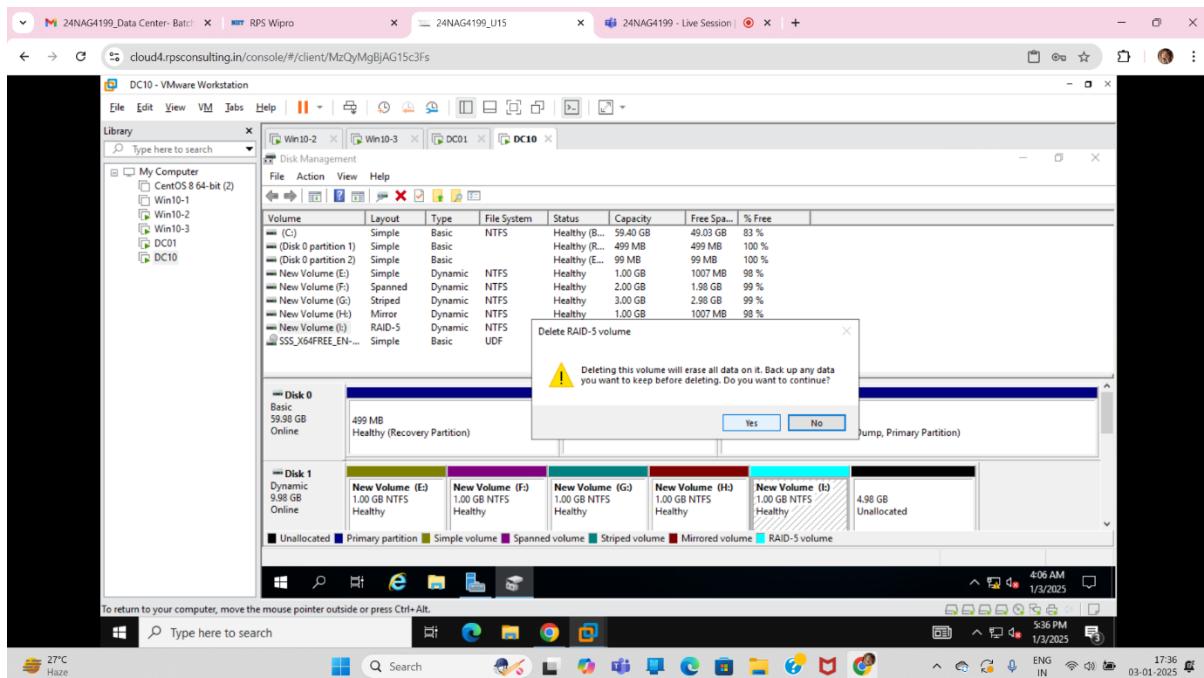
*DELETING VOLUME:

NOW WE CAN ALSO DELETE THE VOLUMES AS SHOWN BELOW.



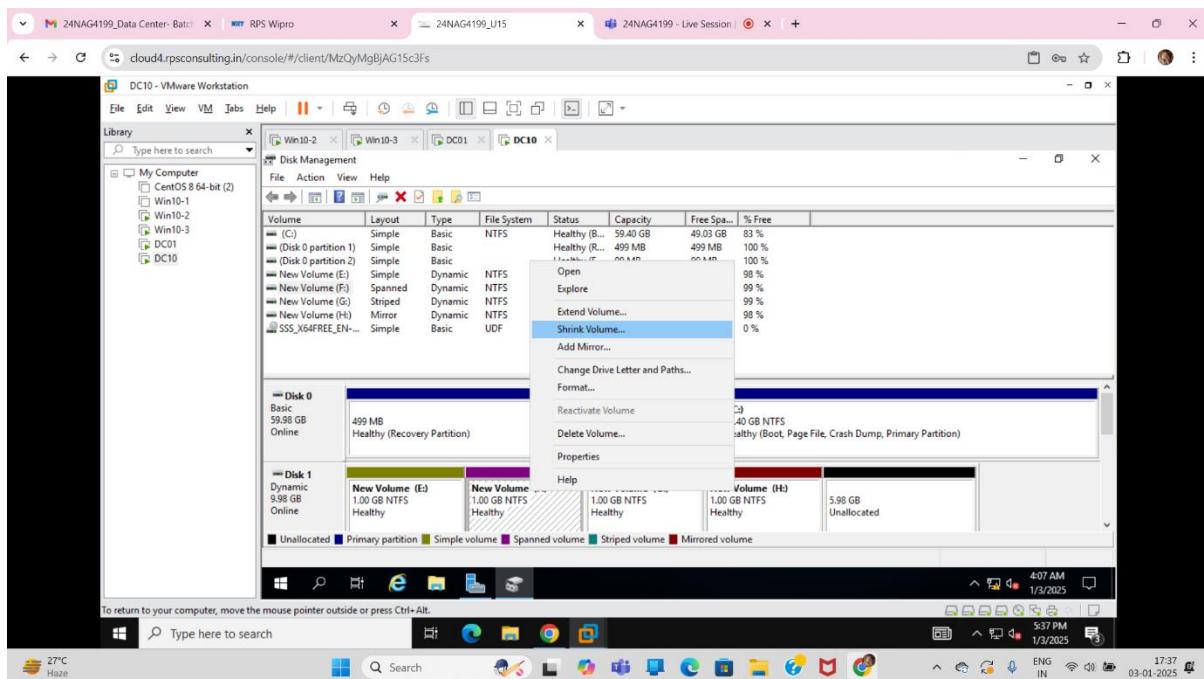
WIPRO ASSIGNMENT - 6

CLICK ON YES.



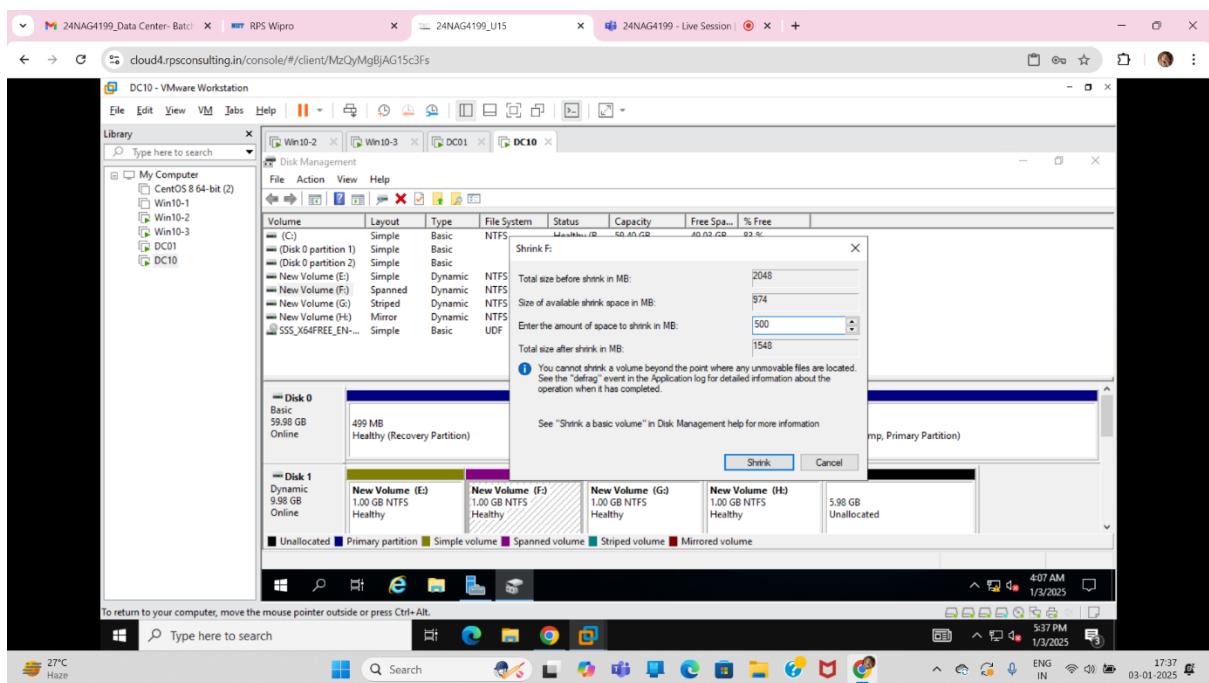
***SHRINK VOLUME:**

WE CAN SHRINK THE VOLUME AS WE REQUIRED AS SHOWN



CLICK ON SHRINK BUTTON.

WIPRO ASSIGNMENT - 6



*****THANK YOU*****