INSTALLATION OF CENTOS[using LVM]

STEP1: Open the URL https://www.centos.org/download/ in the browser.

Now select the type of system architecture based on the processor x86_64 and click on any of themirror links to download the iso image.
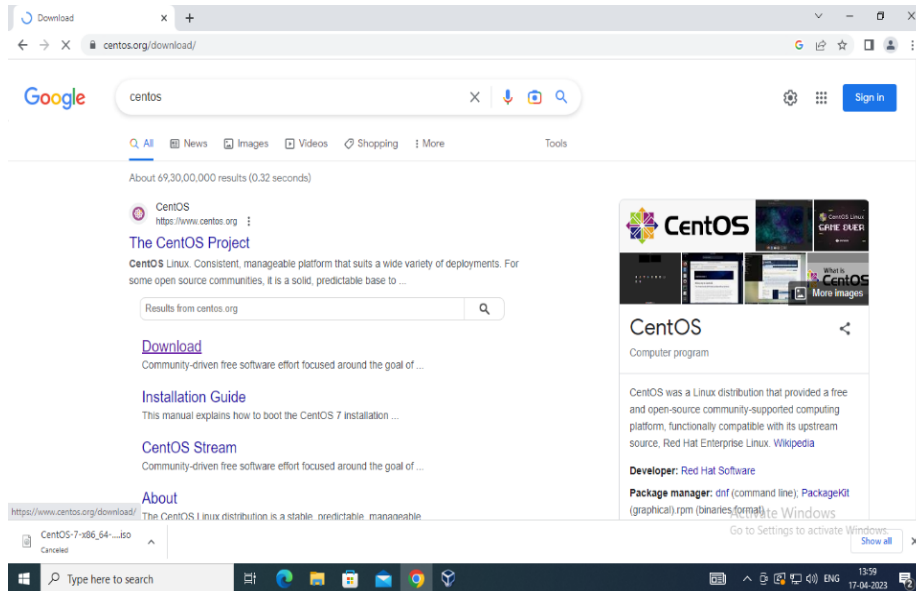

Fig1: Screenshot of Centos

STEP2: Download the minimal version of the ISO image and locate it in the downloads folder of thesystem.
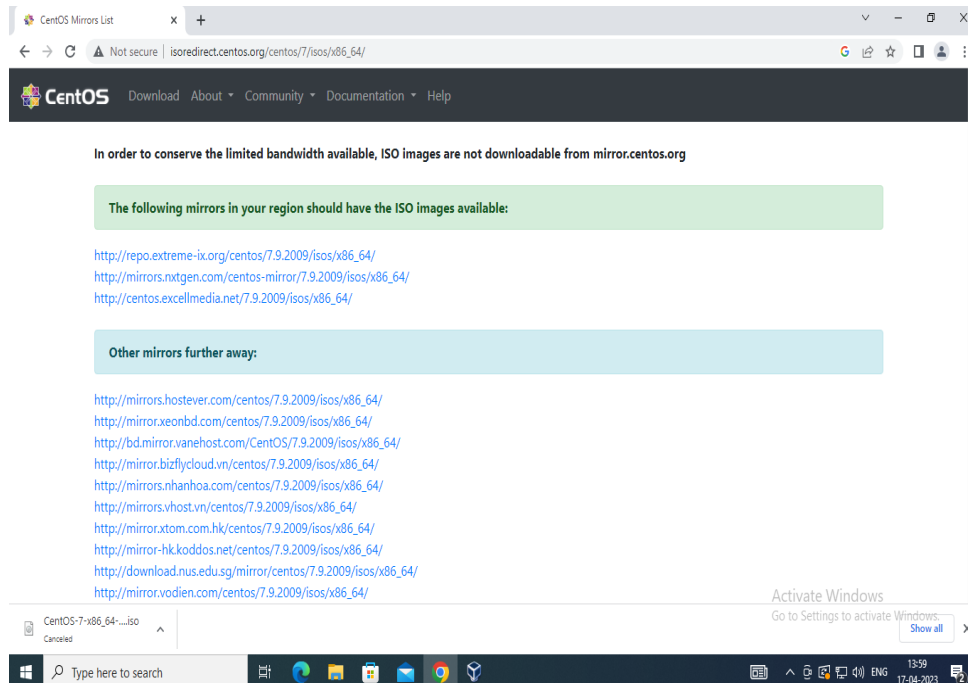

Fig2: Screenshot of CentOS mirror List

STEP3: Once the CentOS is downloaded, it is ready to be installed on VirtualBox. Open VirtualBox,click the "New" button to create a new virtual machine.
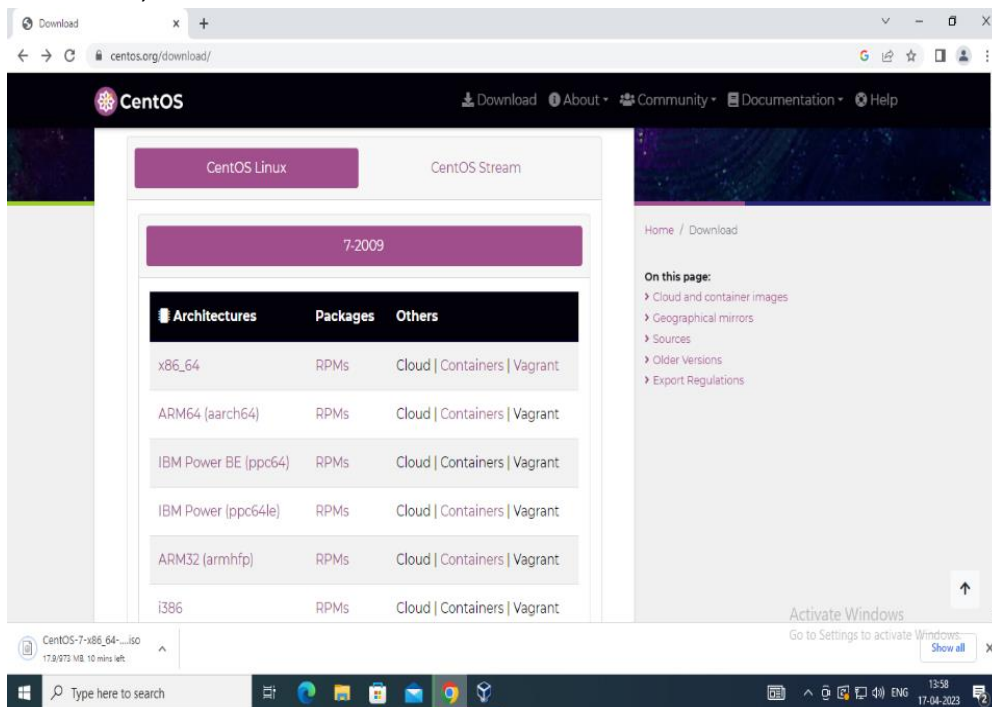

Fig3: Screenshot of Centos Linux

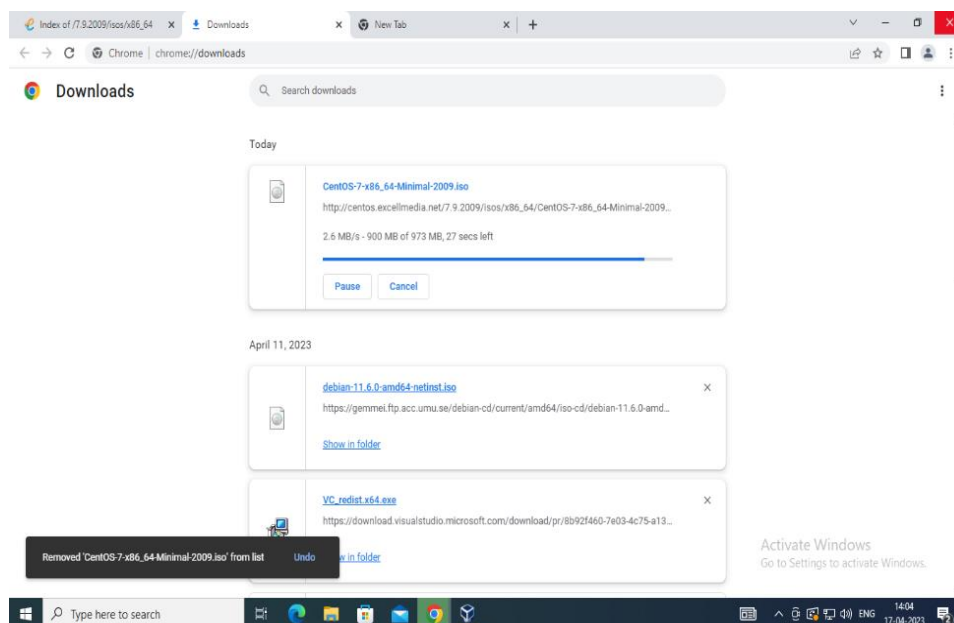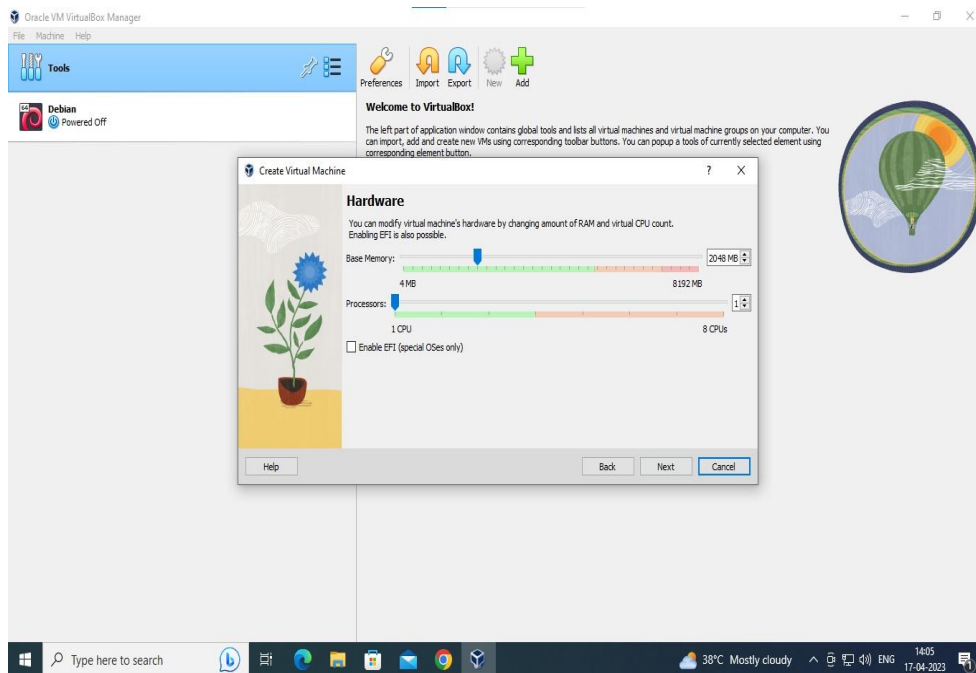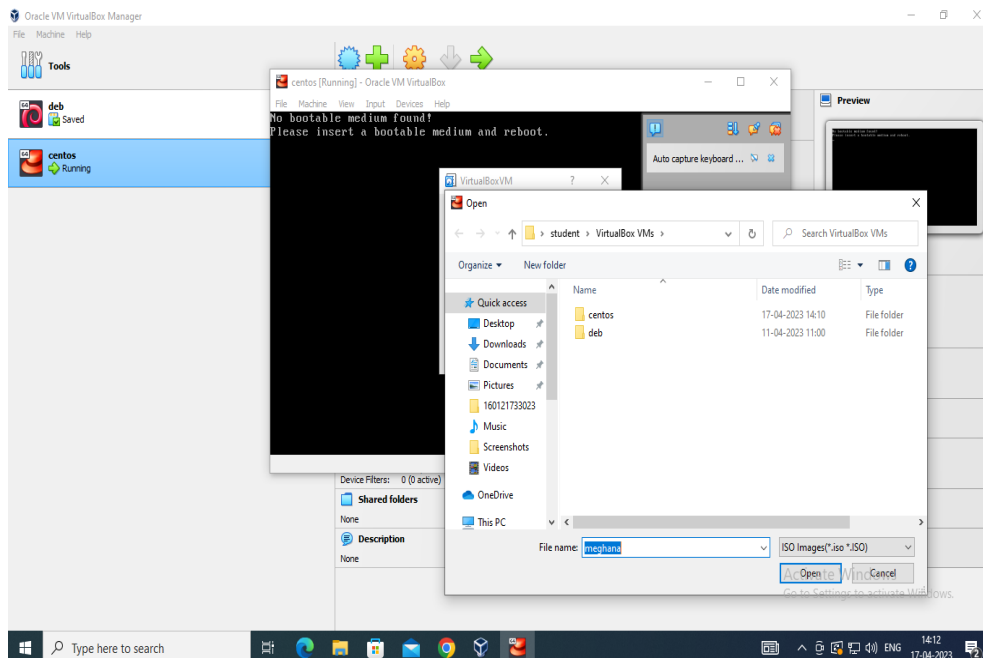**STEP4:** click the "New" button to create a new virtual machine. Hold on till the installation process completes

Fig4: Screenshot of downloading CentOS

STEP5: Set the hardware memory and process length

Fig5: Screenshot to set the hardware length

STEP6: Click on the CentOS virtual machine and then click on the "Start" button present on the top. Click "Create" to continue and now the summary will be displayed showing the details of theos.

Fig6: Screenshot of Loading CentOS

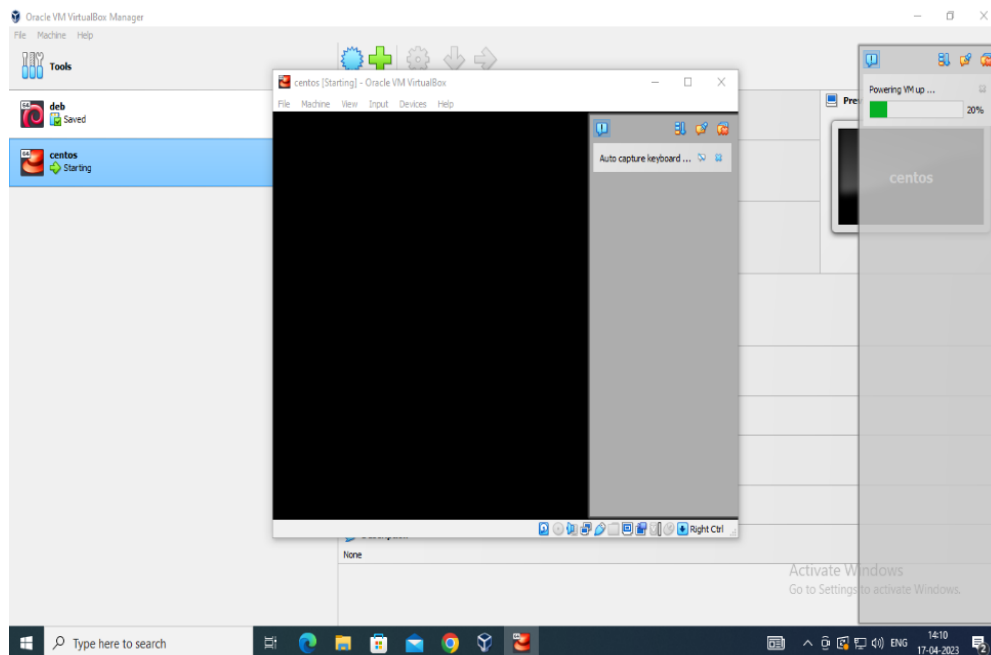**STEP7:** Let it load on to the Virtual machine it may take few seconds

Fig7: Screenshot of loading of CentOS

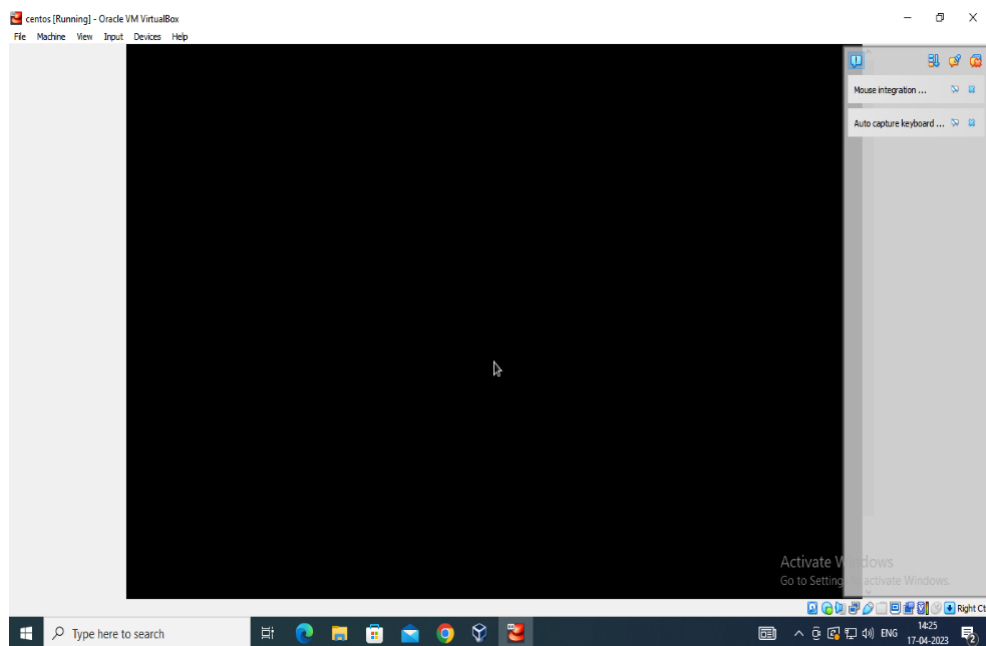**STEP8:** Open the CentOS Home page to view the contents and proceed .

Fig8: Screenshot of CentOS

STPE9: Once all the above settings are saved, you will notice that the "Begin Installation" button isenabled. Click it to start the installation.
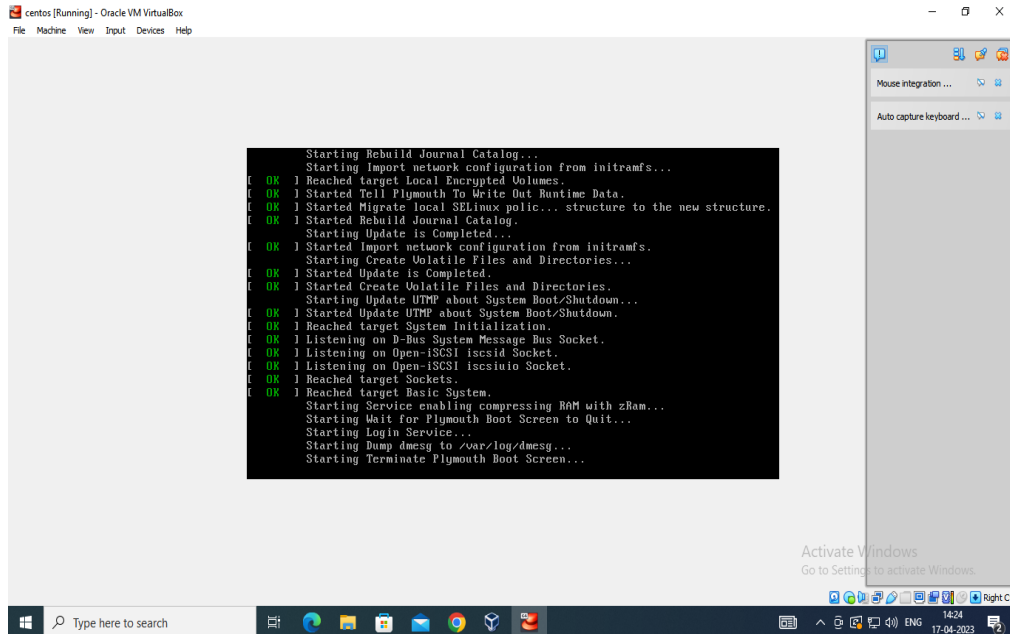

Fig9: Screenshot of Oracle VM VirtualBox

STEP10: After finishing providing the root password. You can go ahead creating a user. Click a "Usercreation" icon present on the window.

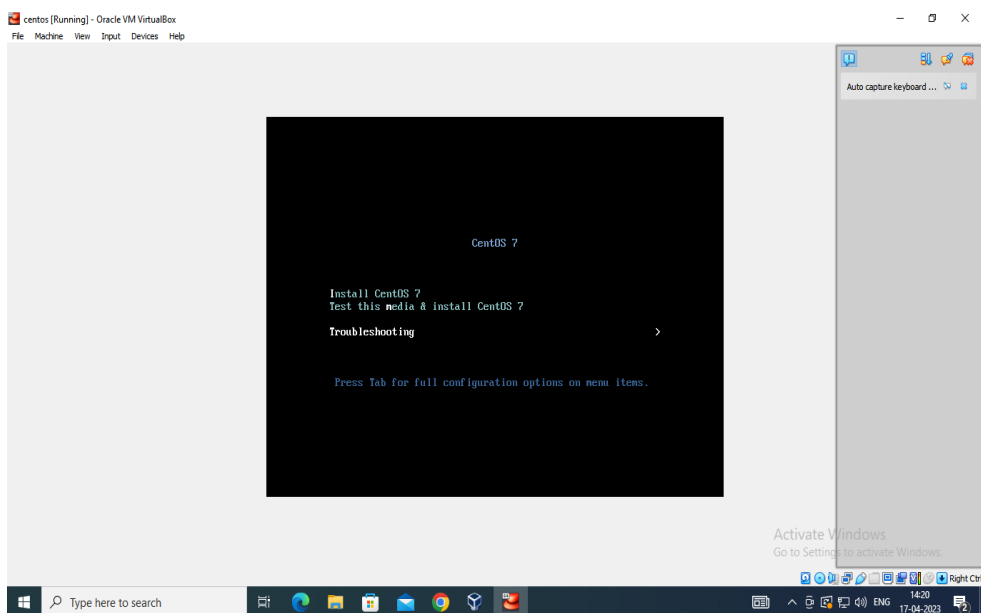When you have provided the above details, click "Done" to continue

Fig10: Screenshot of installing of CentOS

STEP11: "Create a virtual hard disk now" option is checked by default. Click "Create" to proceed.

The next interface is about the hard disk file type. By default, it is VDI (VirtualBox Disk Image)and it is a standard. Click "Next" to proceed.
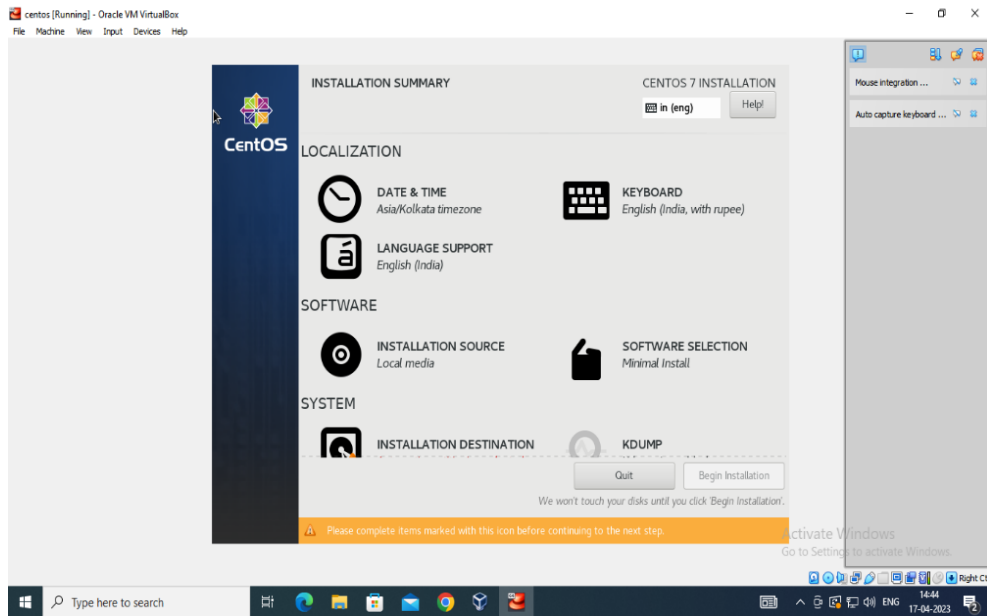

Fig11: Screenshot of installation summary

STEP12: In the next step, we need storage on a physical hard drive. By default, it is "Dynamicallyallocated." Click "Next" when done.
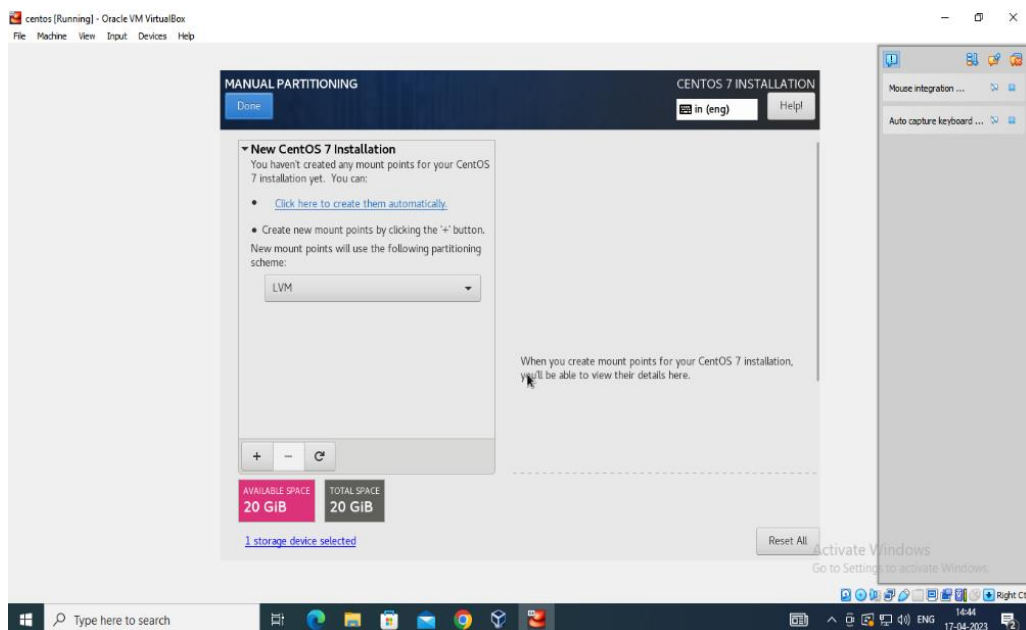

Fig12: Screenshot of Manual Partitioning

STEP13: In the next step, we need storage on a physical hard drive. By default, it is "Dynamicallyallocated." Click "Next" when done. And enter the mount point.
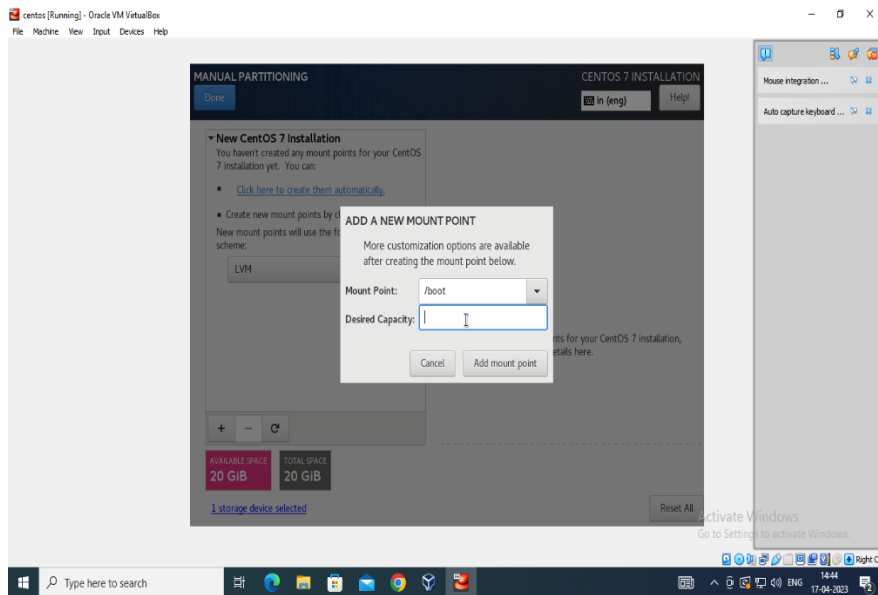

Fig13: Screenshot of manual partitioning and popup menu of mount paint

STEP14: The minimum virtual hard disk which CentOS needs is 8GB but again it depends on the computer. You can adjust it according to the hard disk size of system. Provide the path of virtualhard disk
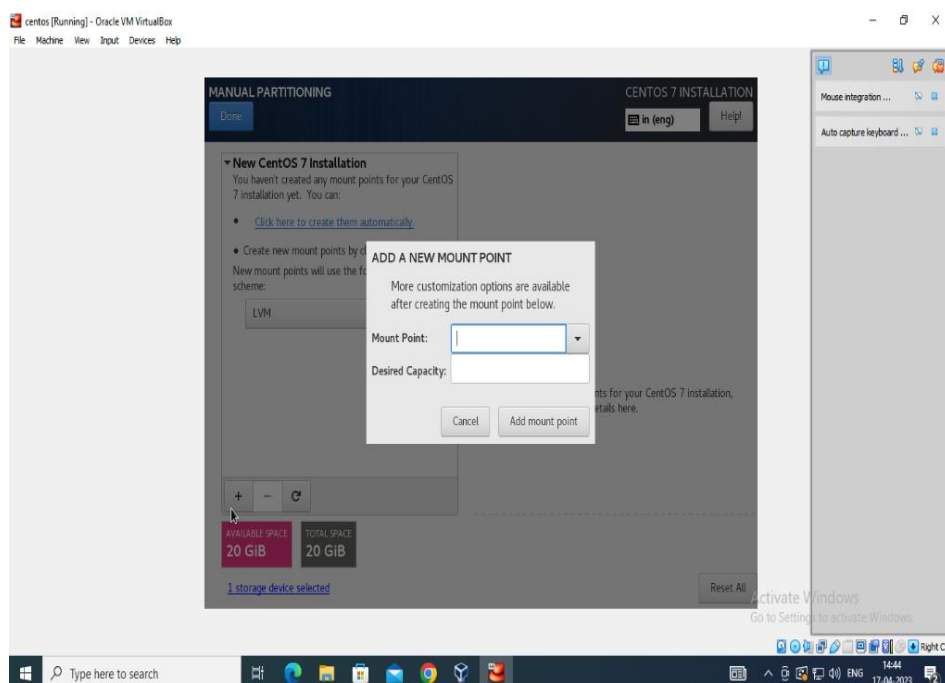

Fig14: Screenshot of Mount Paint dialogue box

Name of student: B.Meghana   section: AIML(J)   RollNo: 160121729303

STEP15: We have three major setting categories and those are Localization, Software, and System and choose desired capacity.

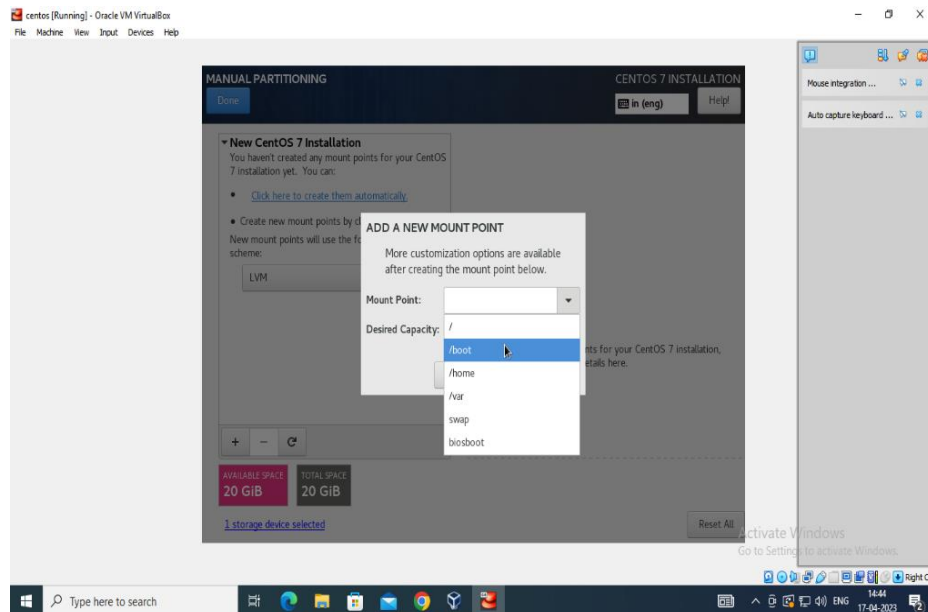Let us start with the localization category, click the "Keyboard" option.

Fig15: Screenshot of manual partitioning to choose desired Capacity

STEP16: By default, it has chosen "English" You can adjust it accordingly by clicking on the"+" icon.Click "Done" to continue.
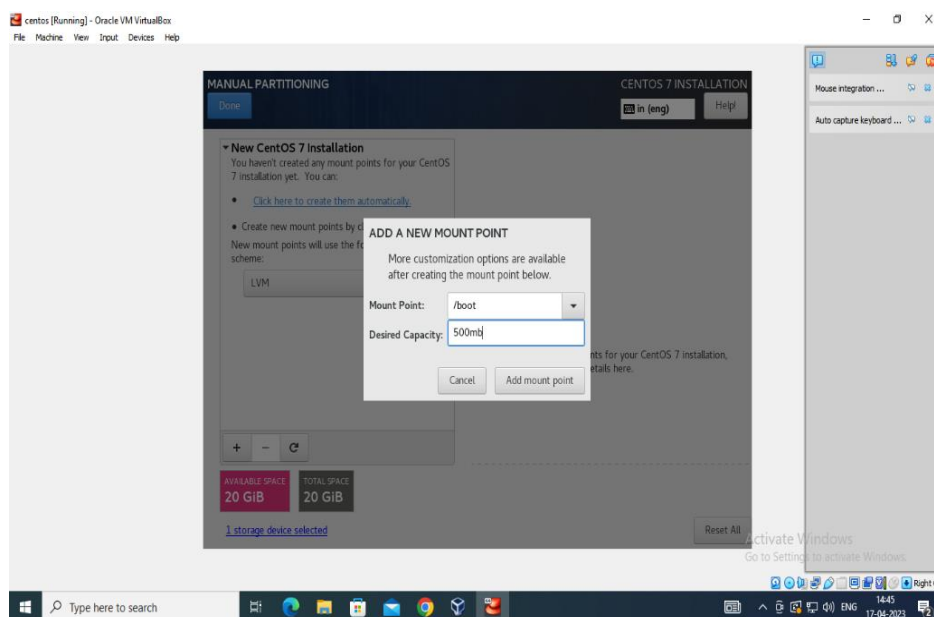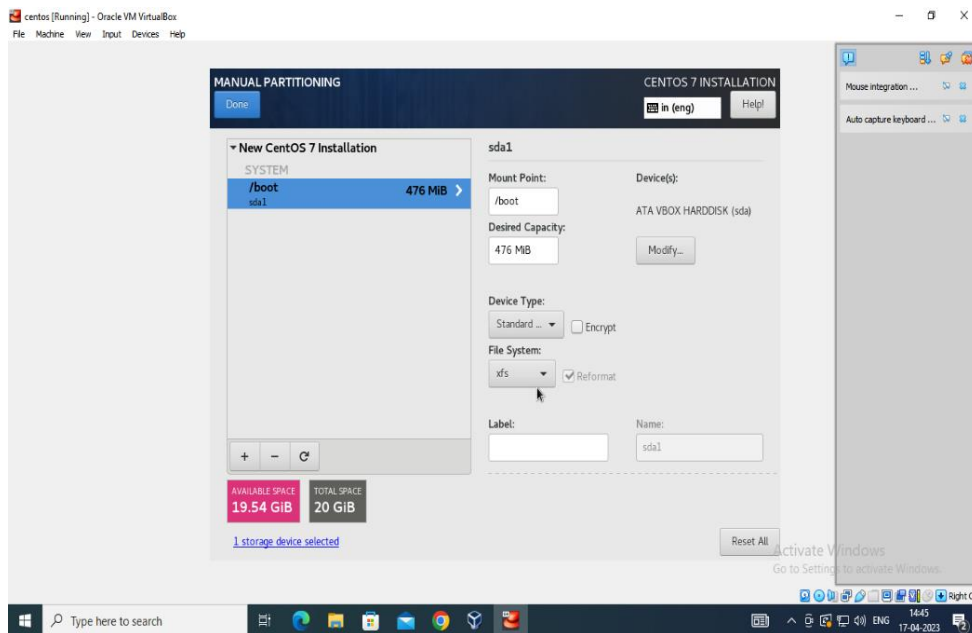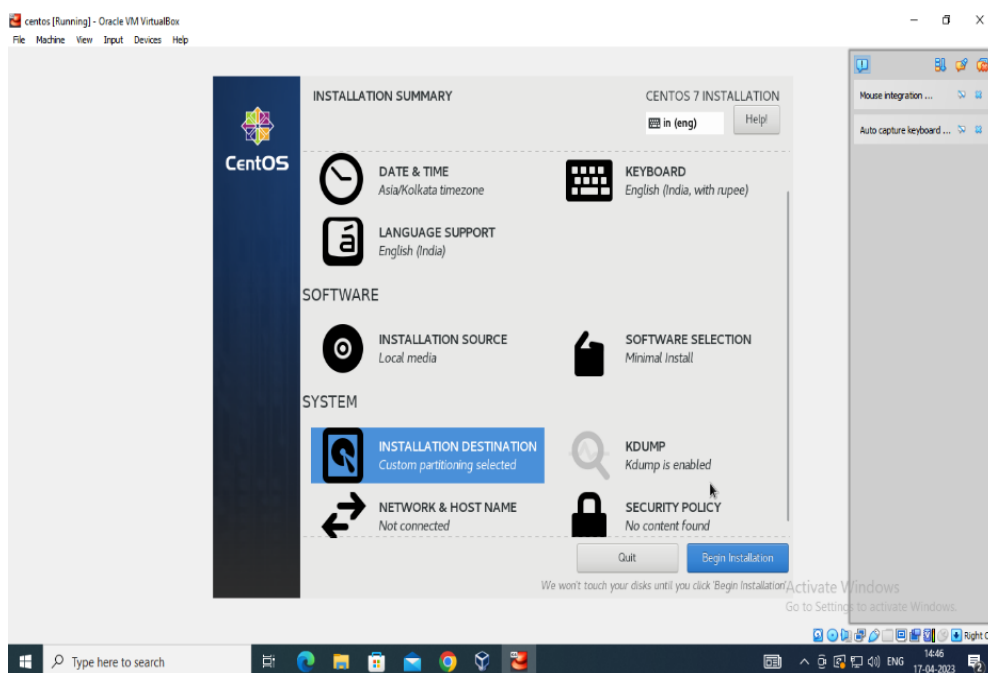

Fig16: Screenshot to choose Desired Capacity

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STEP17: Set the Mount Point and Set the desired capcity in Manual Partitioning

Fig17: Screenshot of configuration of Mutual Partitioning

STEP18: Select the installation destination and Double click on it to proceed next .

Fig20: Screenshot of installation Destination

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STEP19: Select the summary of changes to proceed to further modifications.The below are the 12 summary of changes with which we can proceed further.
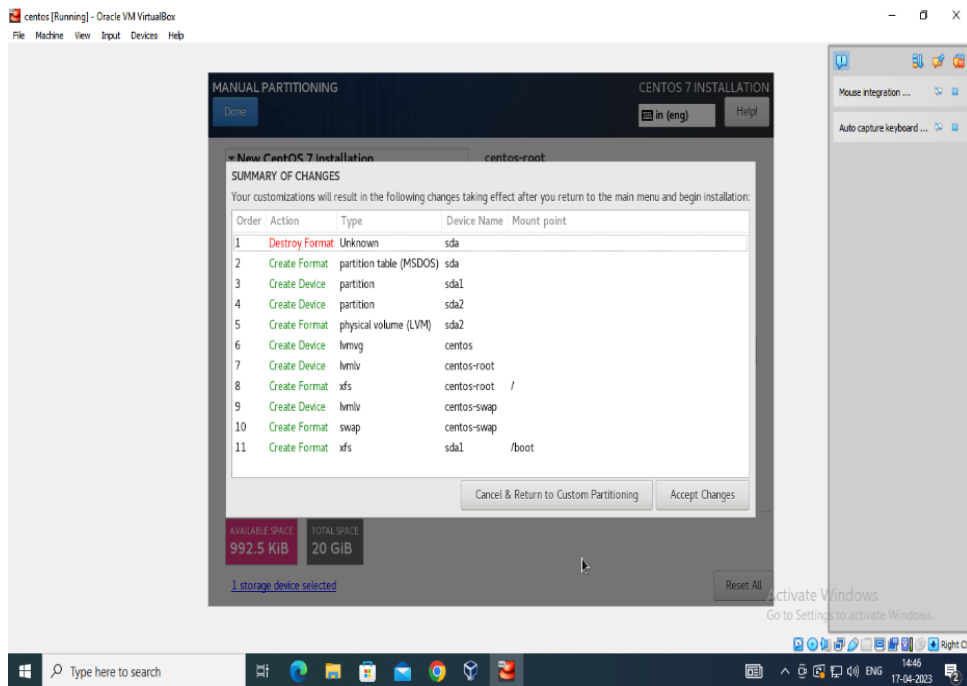

Fig21: Screenshot of summary of changes

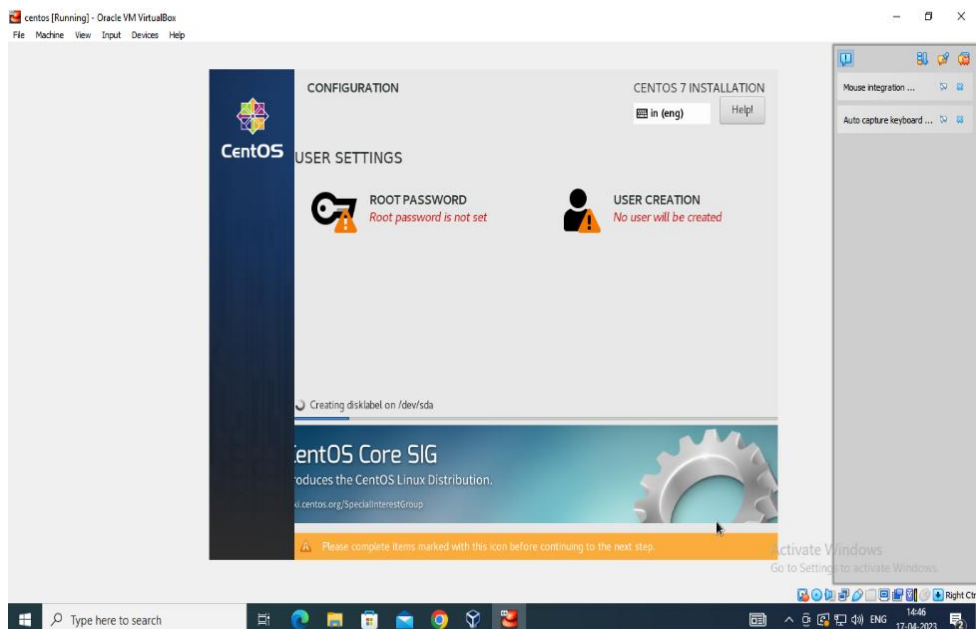**STEP20:** Select the root password and User creation to Rectify the error

Fig22: Screenshot of Configuration of User settings

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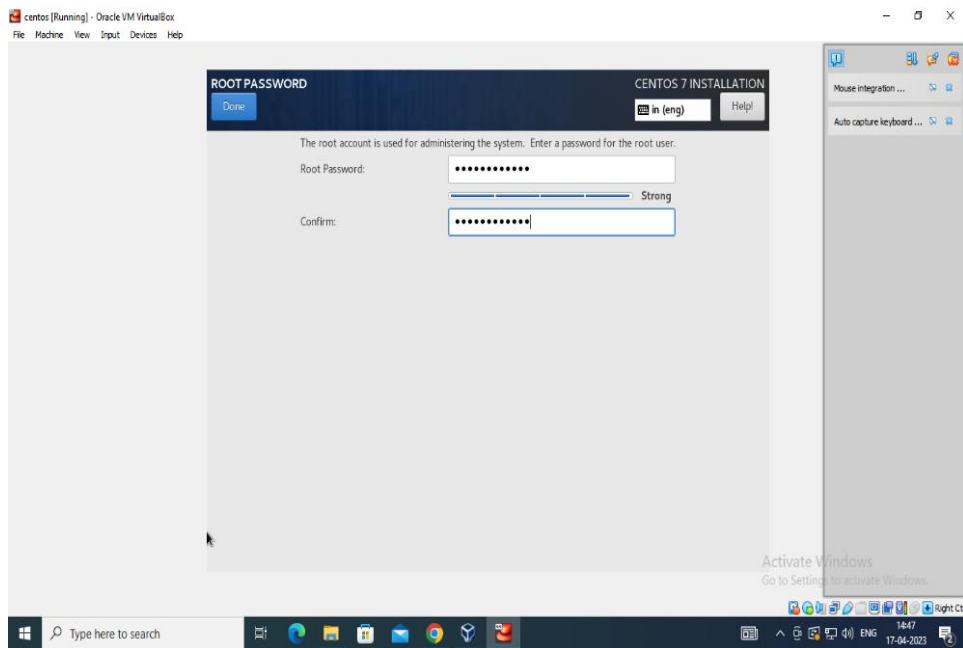**STEP21:** Enter the Root password and confirm the root .

Fig23: Screenshot of root password display box

STEP22: Enter the details like Fullname , Username , Password and reenter the password to confirm it.
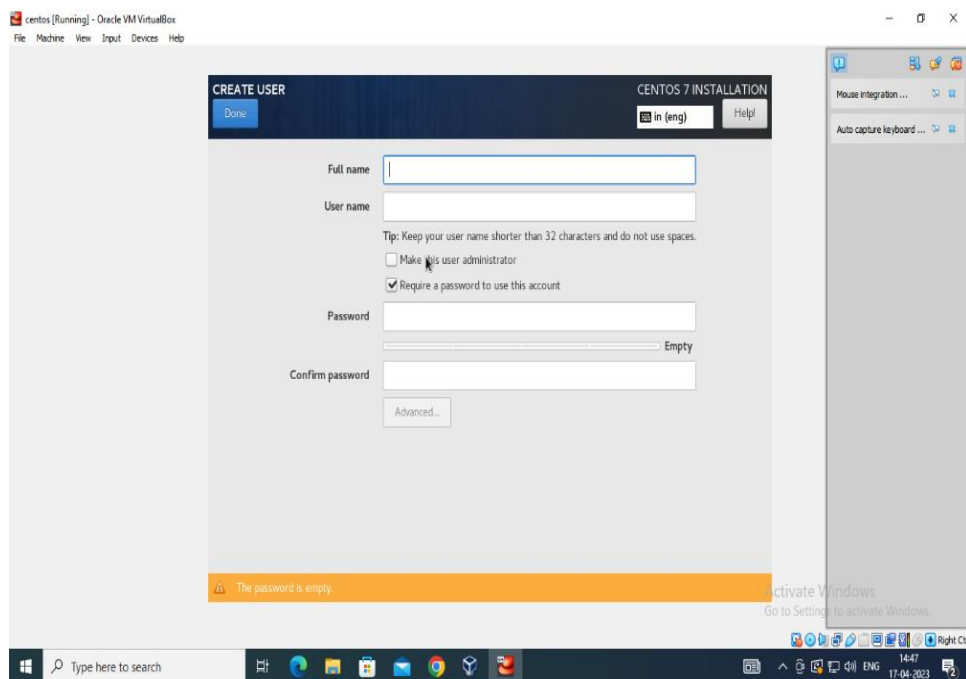

Fig24: Screenshot of display box to write full name

11

STEP22: The Below are the details that are to be entered to proceed with centOS.
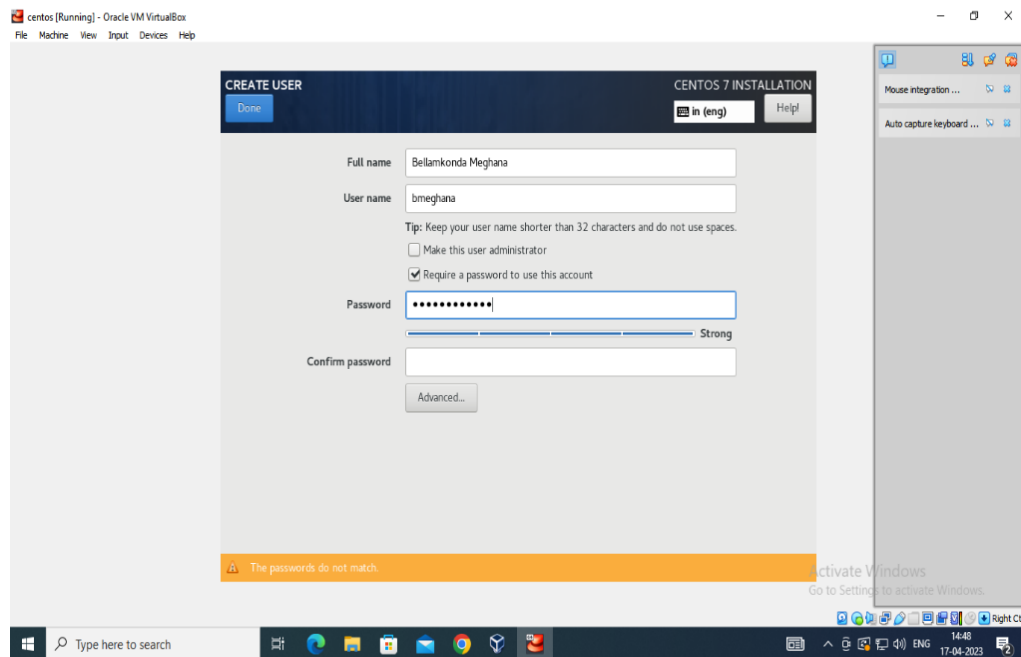

Fig25: Screenshot of display box to write Password, full name, User name

STEP23: As we have already given the ISO file path and it is auto-detected here. We do not need to doanything. Click "Done" to continue.
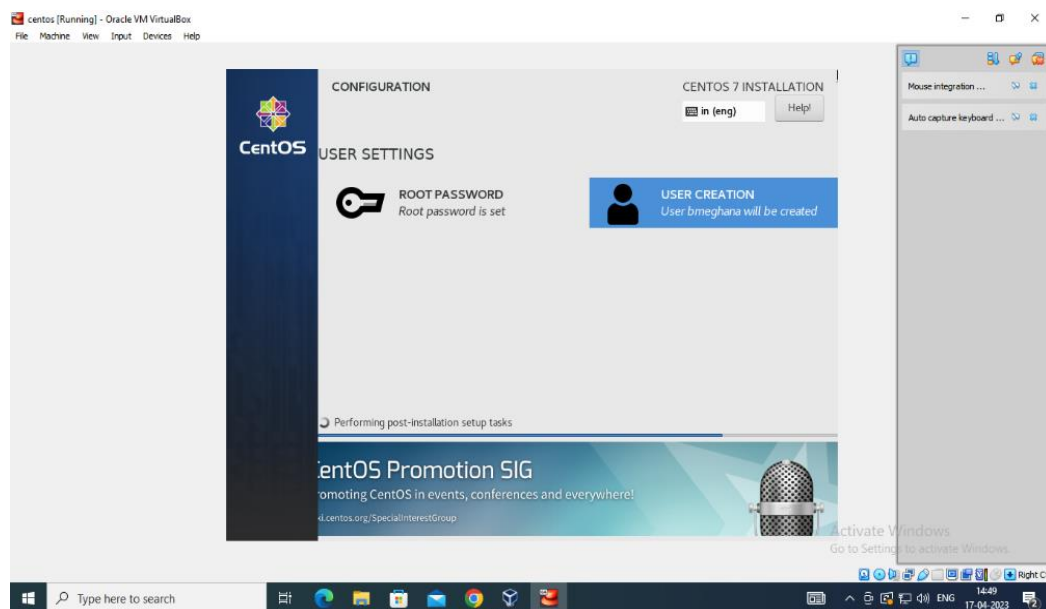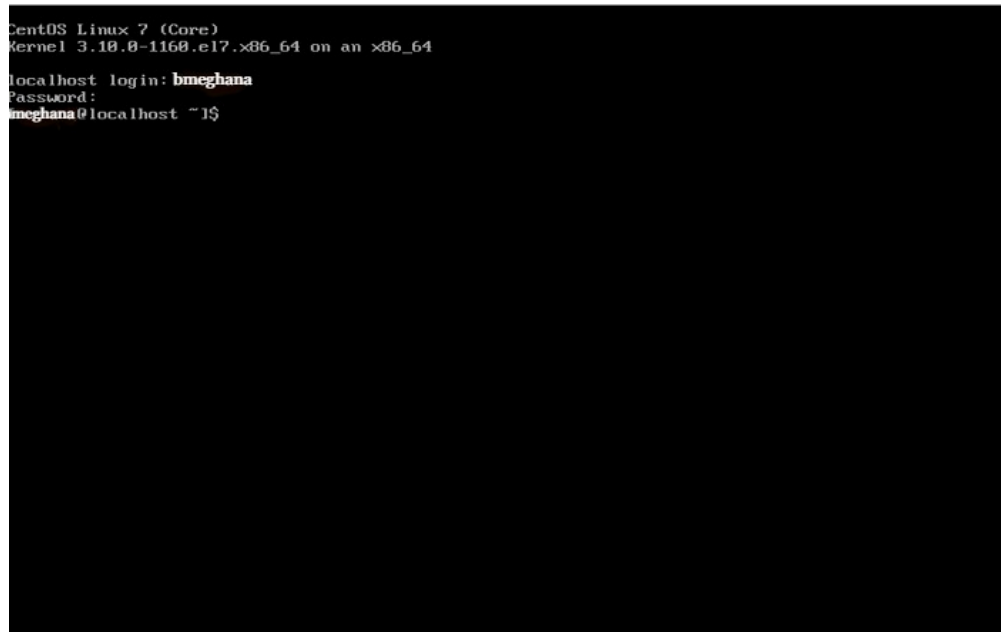

Fig13: Screenshot of creation of CentOS completion

STEP24: Login to localhost and enter password to proceed further by entering the details as shown below

Fig14: Screenshot of login Credentials

STEP25: After restarting of system a user screen will prompt for asking password login to centos andbegin using it.
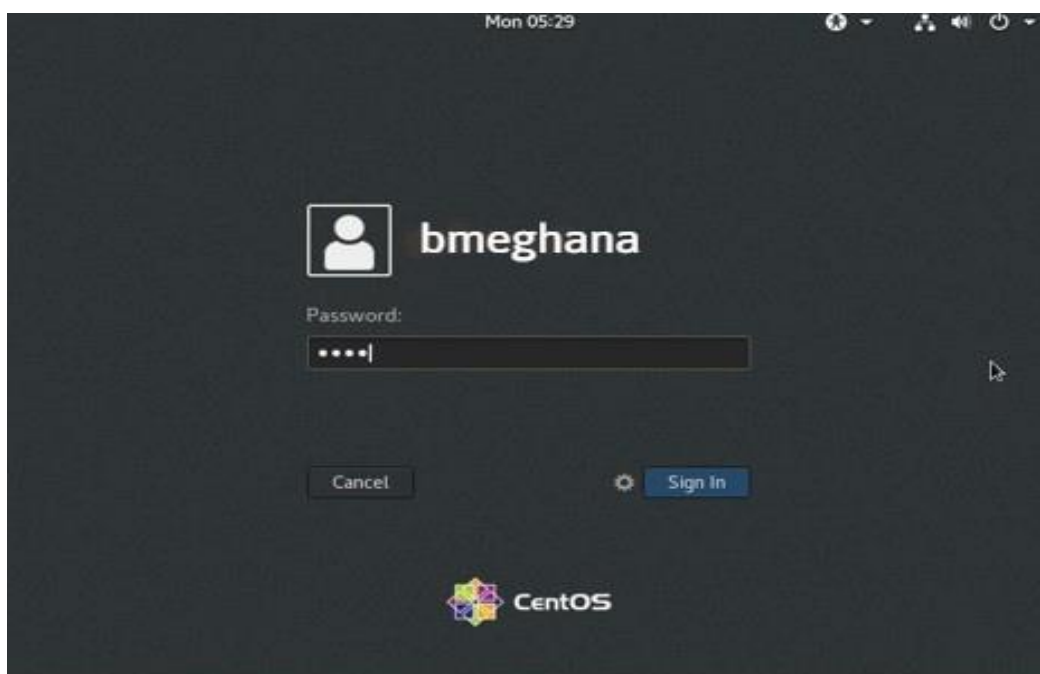

Fig15: Screenshot of user Credentials

<u>INSTALLATION OF CENTOS [using LVM]</u>

STEP1: Open the URL <u>https://www.centos.org/download/</u> in the browser.

Now select the type of system architecture based on the processor x86_64 and click on any of themirror links to download the iso image.
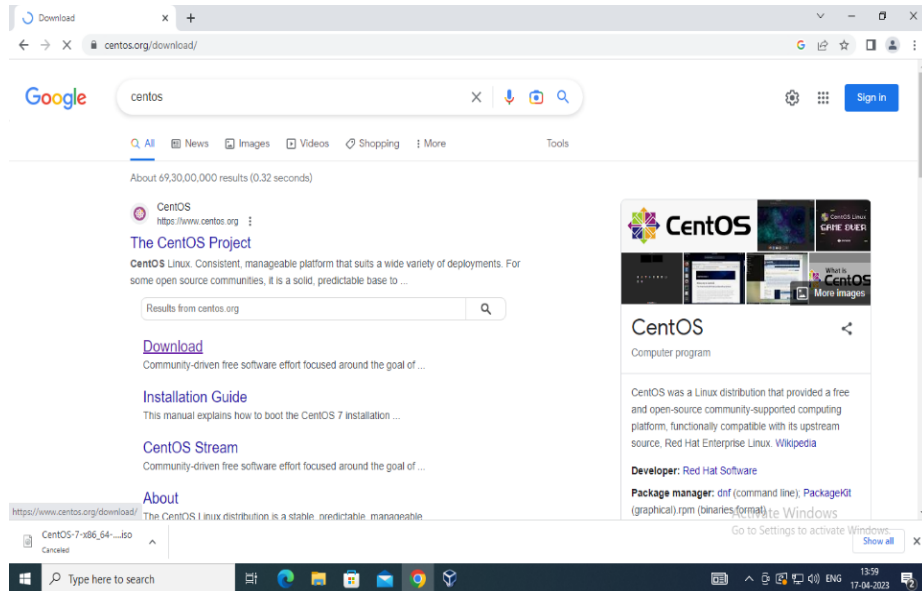

Fig1: Screenshot of Centos

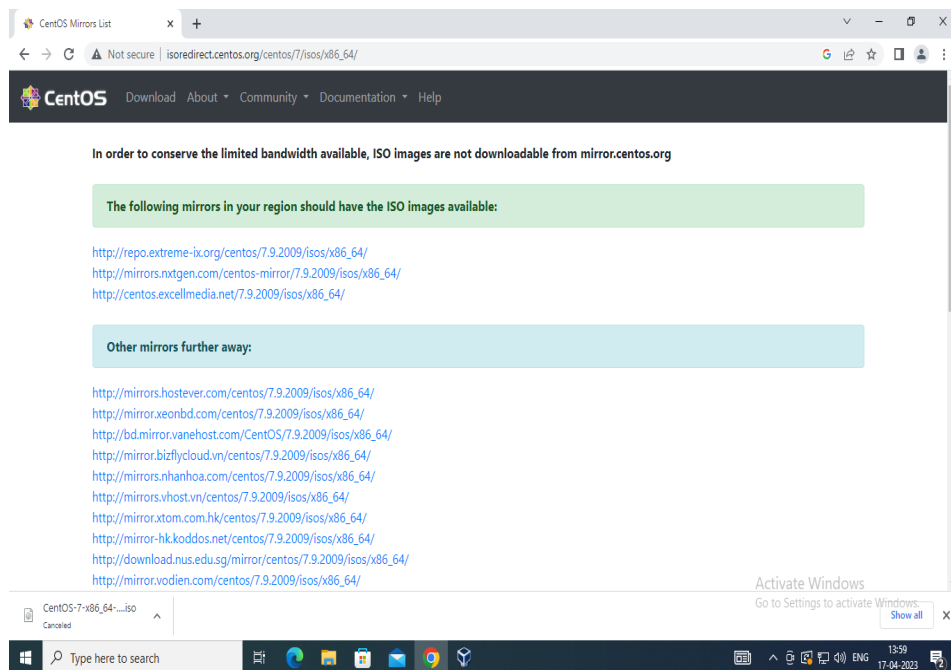**STEP2:** Download the minimal version of the ISO image and locate it in the downloads folder of thesystem.

Fig2: Screenshot of CentOS mirror List

14

Name of student: B.Meghana   section: AIML(J)   RollNo: 160121729303

STEP3: Once the CentOS is downloaded, it is ready to be installed on VirtualBox. Open VirtualBox,click the "New" button to create a new virtual machine.
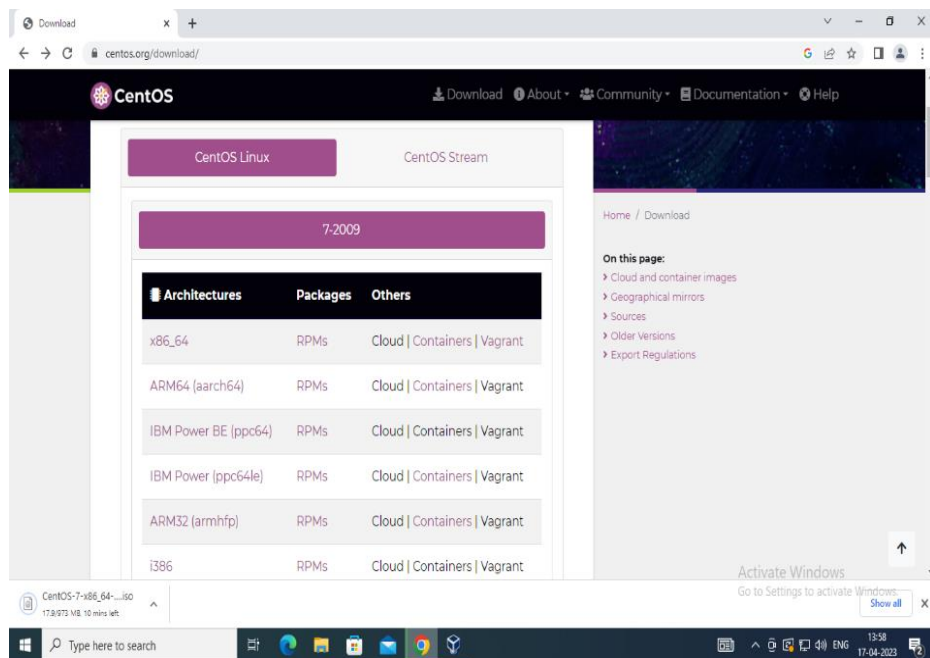

Fig3: Screenshot of Centos Linux

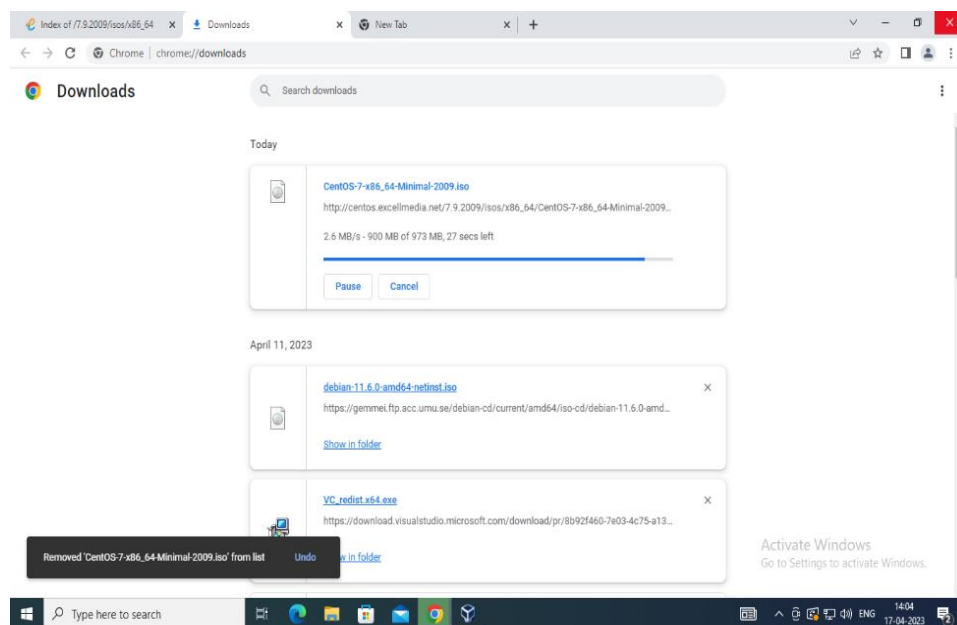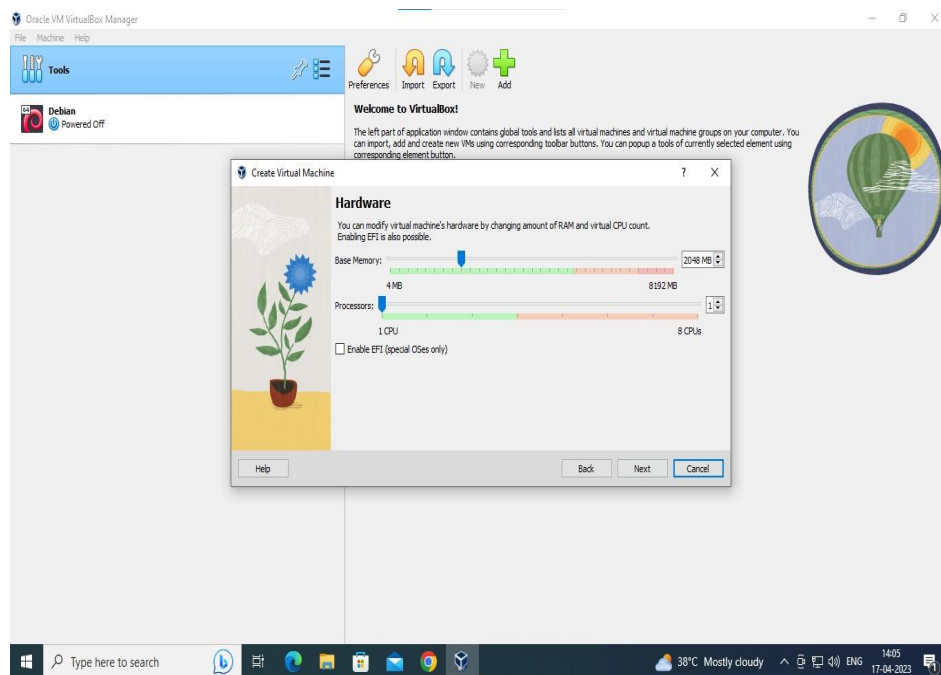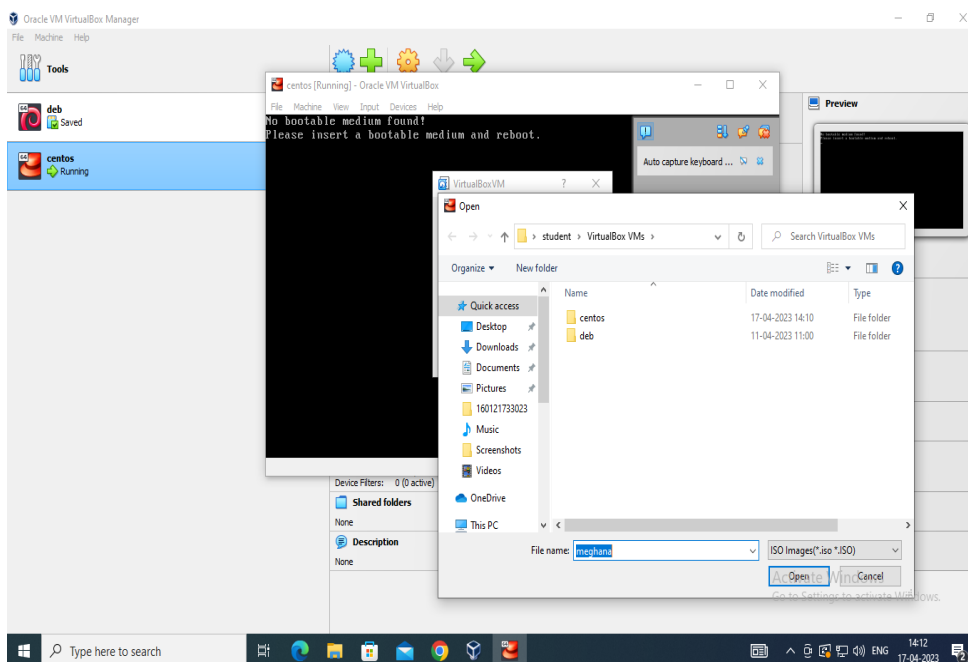**STEP4:** click the "New" button to create a new virtual machine. Hold on till the installation process completes

Fig4: Screenshot of downloading CentOS

15

STEP5: Set the hardware memory and process length

Fig5: Screenshot to set the hardware length

STEP6: Click on the CentOS virtual machine and then click on the "Start" button present on the top. Click "Create" to continue and now the summary will be displayed showing the details of the centOS.

Fig6: Screenshot of Loading CentOS

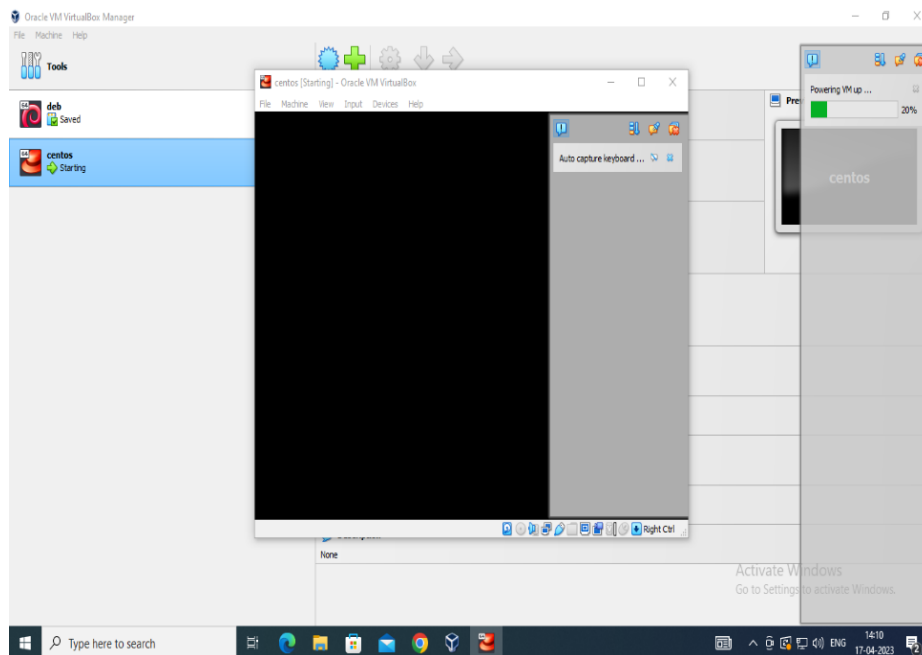**STEP7:** Let it load on to the Virtual machine it may take few seconds

Fig7: Screenshot of loading of centOS

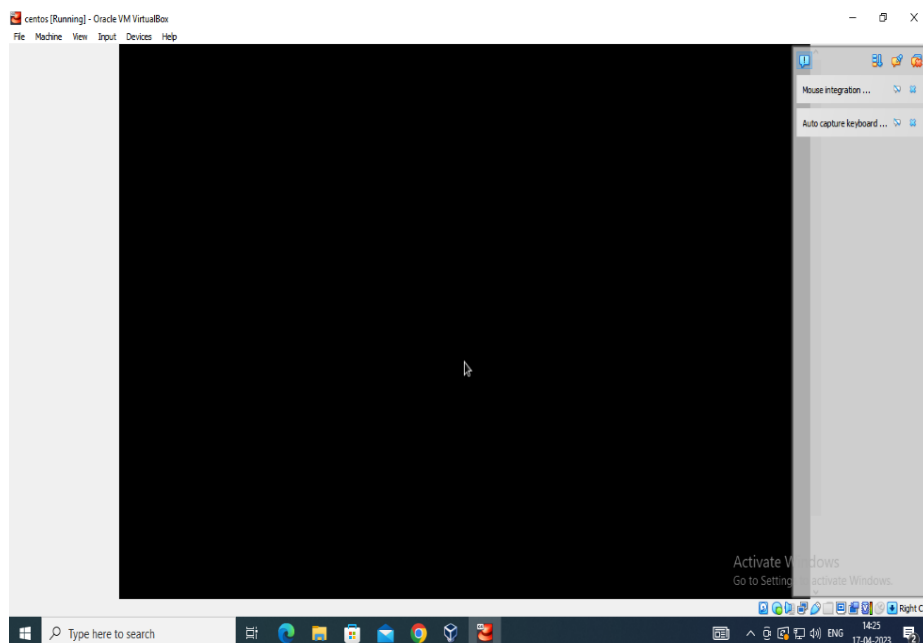**STEP8:** Open the CentOS Home page to view the contents and proceed .

Fig8: Screenshot of CentOS

17

STPE9: Once all the above settings are saved, you will notice that the "Begin Installation" button isenabled. Click it to start the installation.
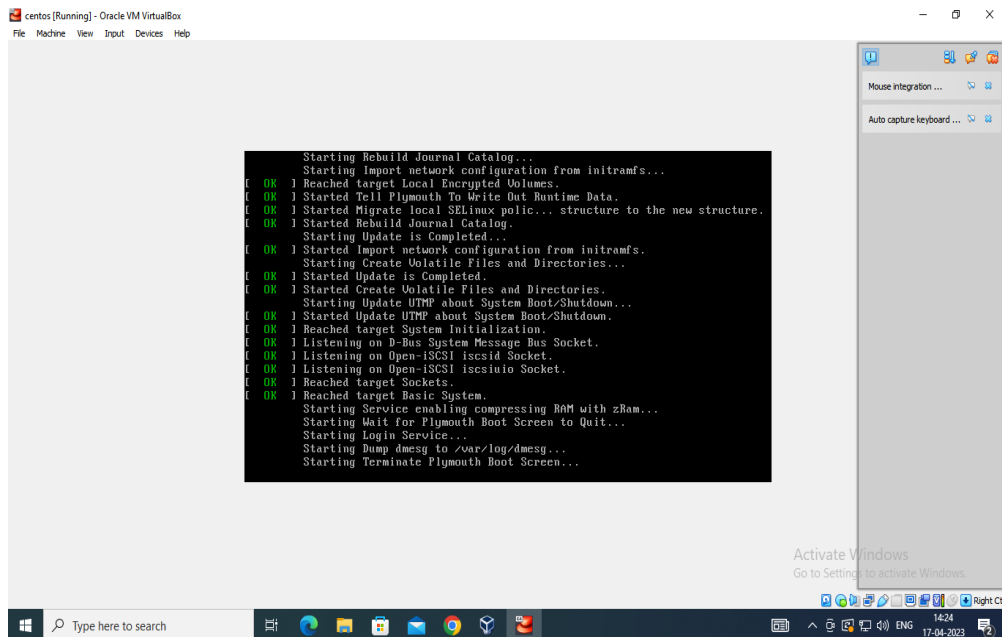

Fig9: Screenshot of Oracle VM VirtualBox

STEP10:   After finishing providing the root password. You can go ahead creating a user. Click a "Usercreation" icon present on the window.

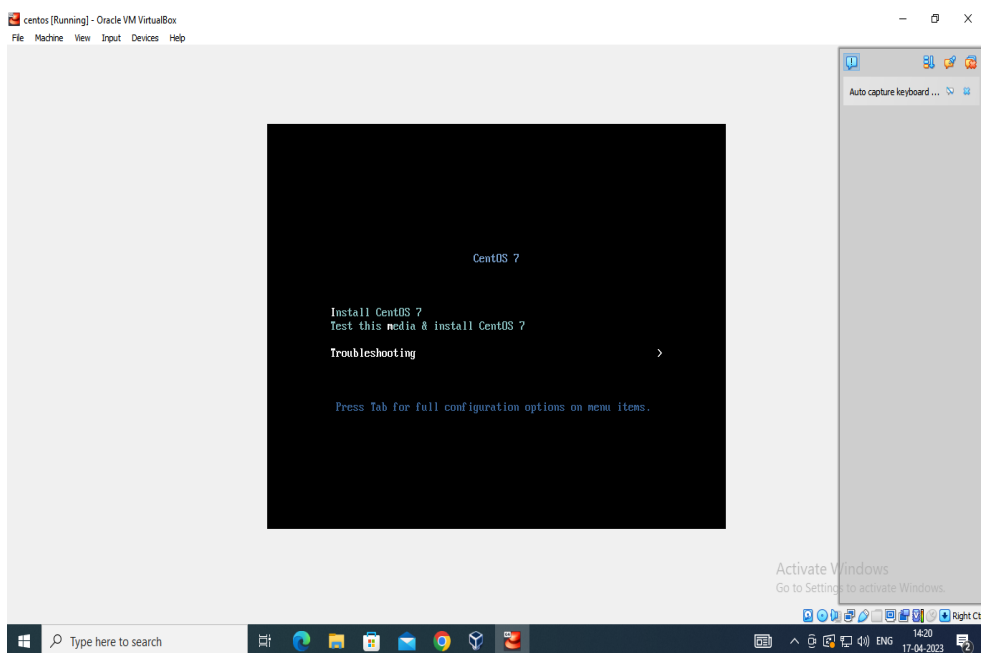When you have provided the above details, click "Done" to continue

Fig10: Screenshot of installing of CentOS

18

STEP11: "Create a virtual hard disk now" option is checked by default. Click "Create" to proceed.

The next interface is about the hard disk file type. By default, it is VDI (VirtualBox Disk Image)and it is a standard. Click "Next" to proceed.
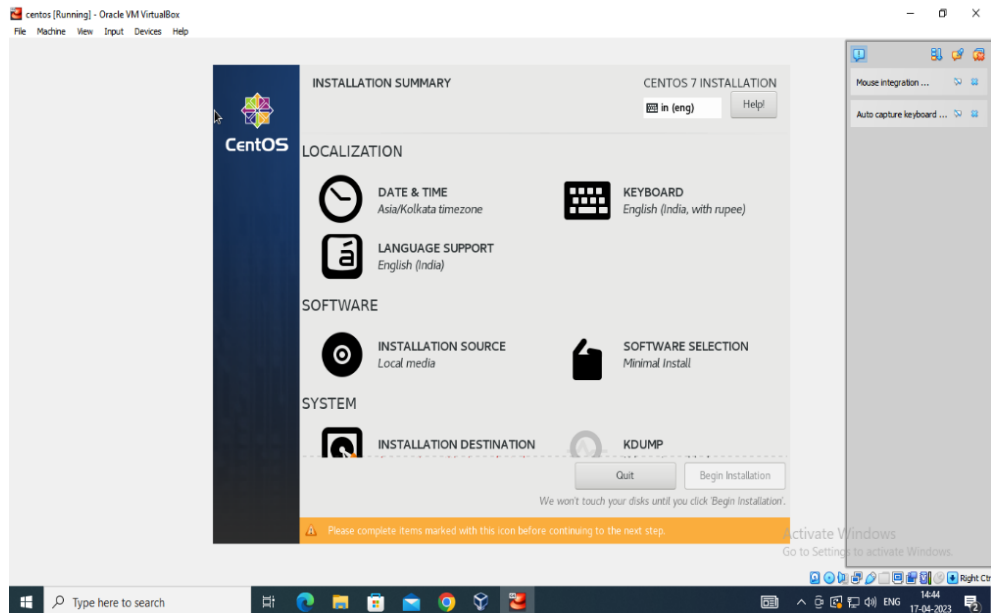

Fig11: Screenshot of installation summary

STEP12: In the next step, we need storage on a physical hard drive. By default, it is "Dynamicallyallocated." Click "Next" when done.
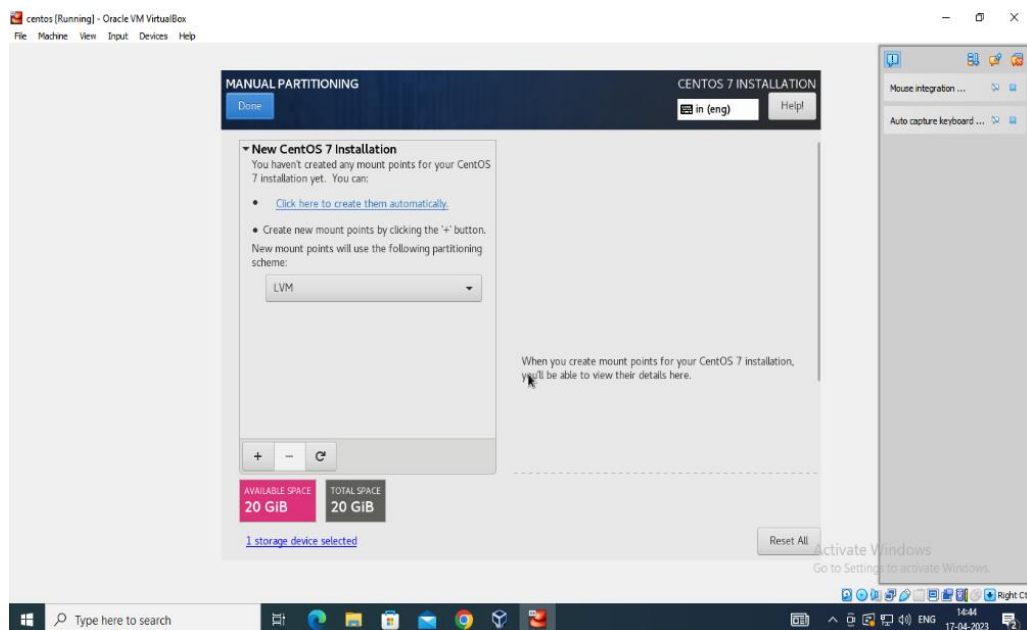

Fig12: Screenshot of Manual Partitioning

STEP13: In the next step, we need storage on a physical hard drive. By default, it is "Dynamicallyallocated." Click "Next" when done. And enter the mount point.
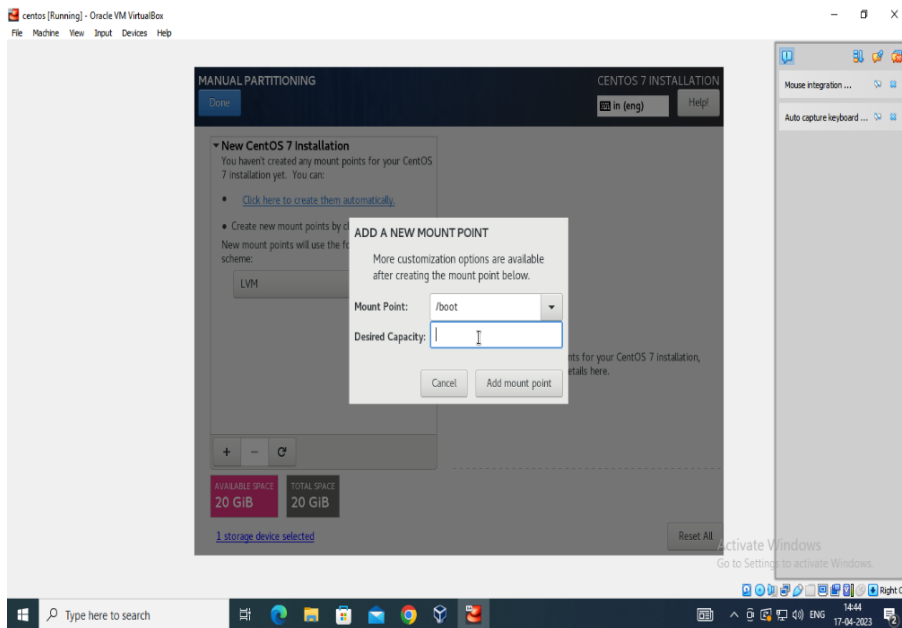

Fig13: Screenshot of manual partitioning and popup menu of mount paint

STEP14: The minimum virtual hard disk which CentOS needs is 8GB but again it depends on the computer. You can adjust it according to the hard disk size of system. Provide the path of virtualhard disk
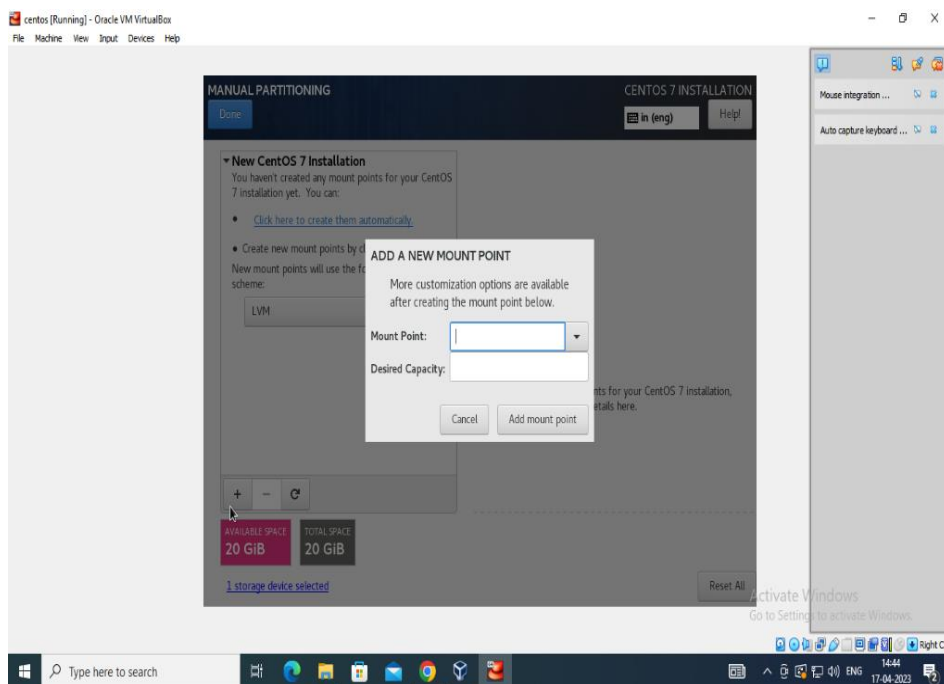

Fig14: Screenshot of Mount Paint dialogue box

STEP15: We have three major setting categories and those are Localization, Software, and System and choose desired capacity.

Let us start with the localization category, click the "Keyboard" option.
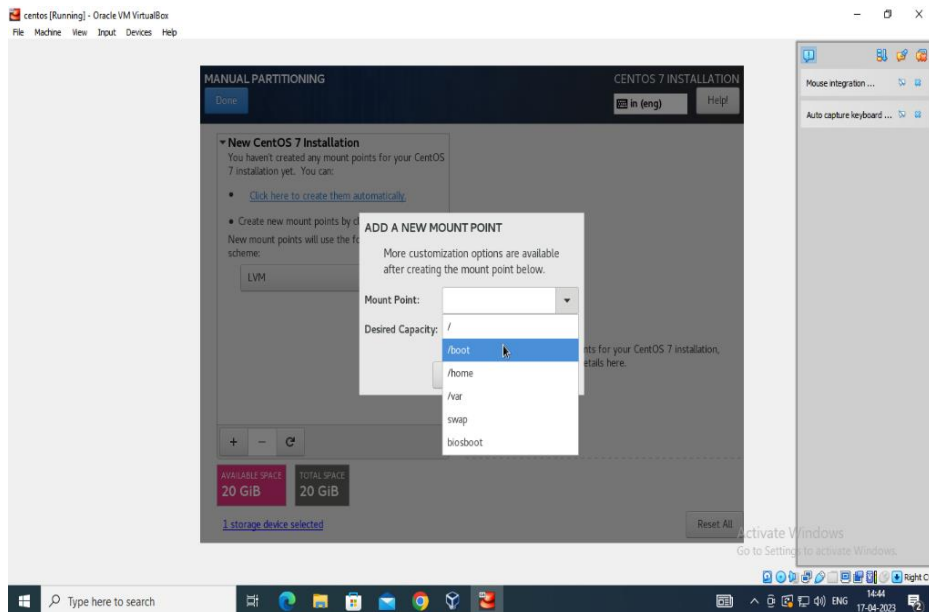

Fig15: Screenshot of manual partitioning to choose desired Capacity

STEP16: By default, it has chosen "English" You can adjust it accordingly by clicking on the"+" icon.Click "Done" to continue.
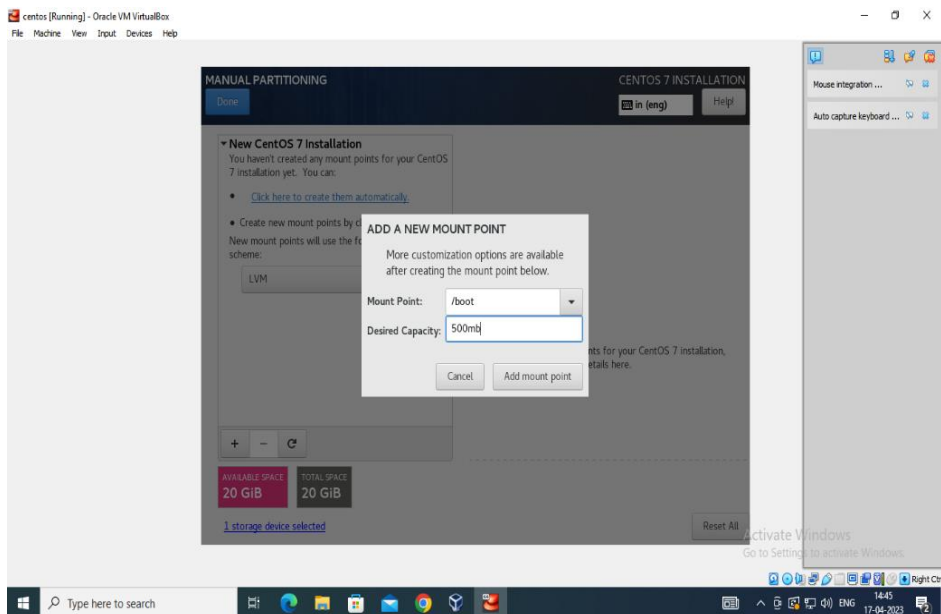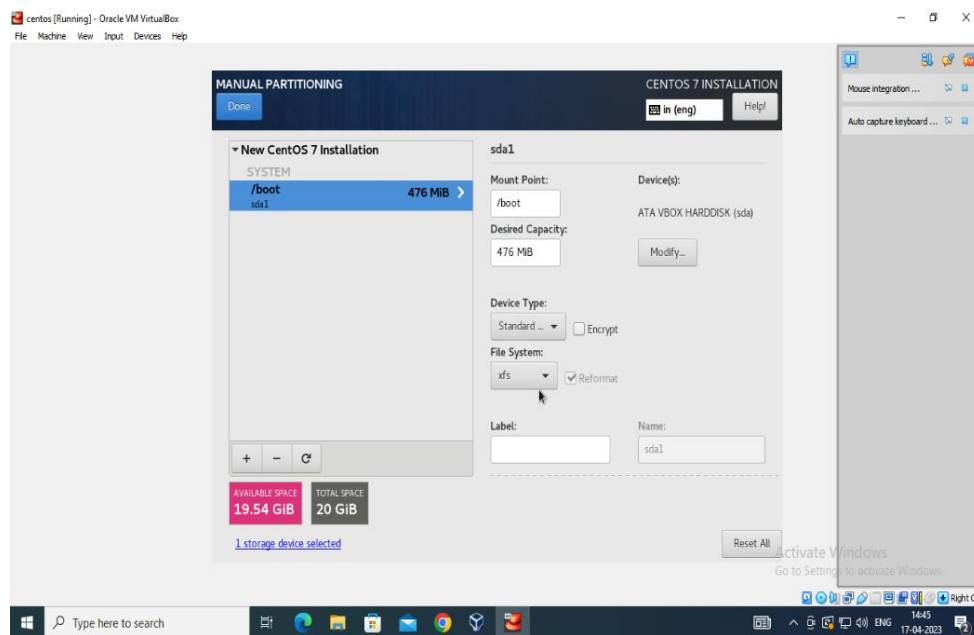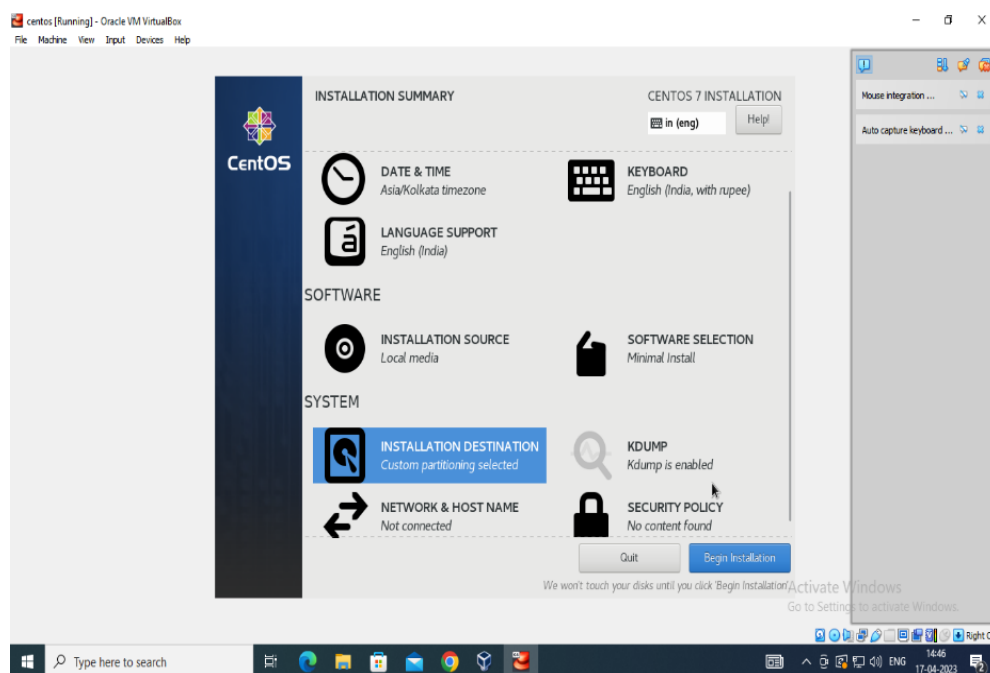

Fig16: Screenshot to choose Desired Capacity

21

STEP17: Set the Mount Point and Set the desired capcity in Manual Partitioning

Fig17: Screenshot of configuration of Mutual Partitioning

STEP18: Select the installation destination and Double click on it to proceed next .

Fig18: Screenshot of installation Destination

22

STEP19: Select the summary of changes to proceed to further modifications.The below are the 12 summary of changes with which we can proceed further.
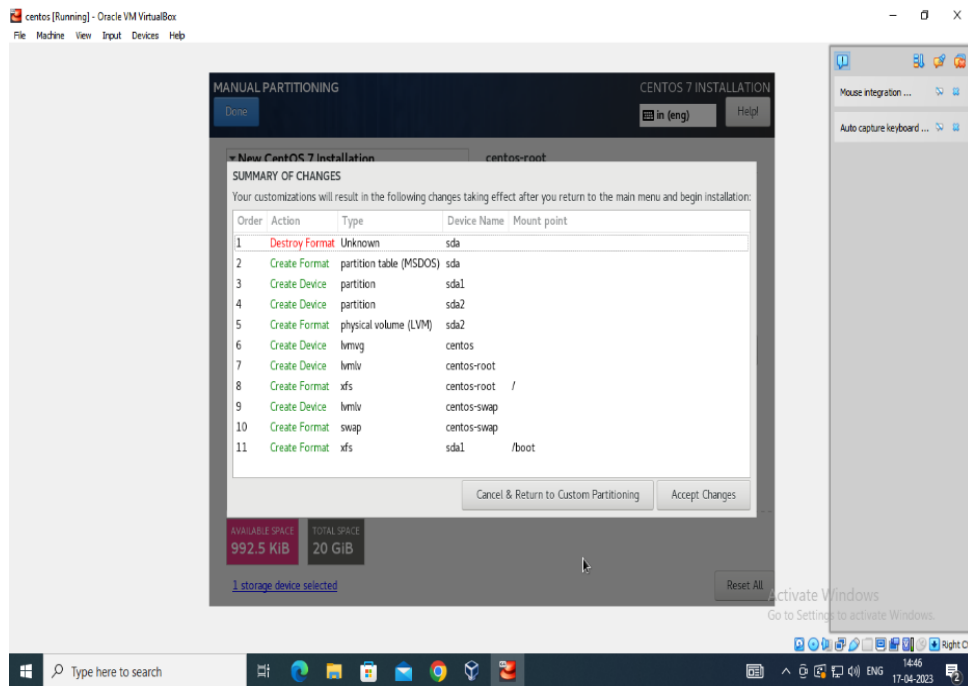

Fig19: Screenshot of summary of changes

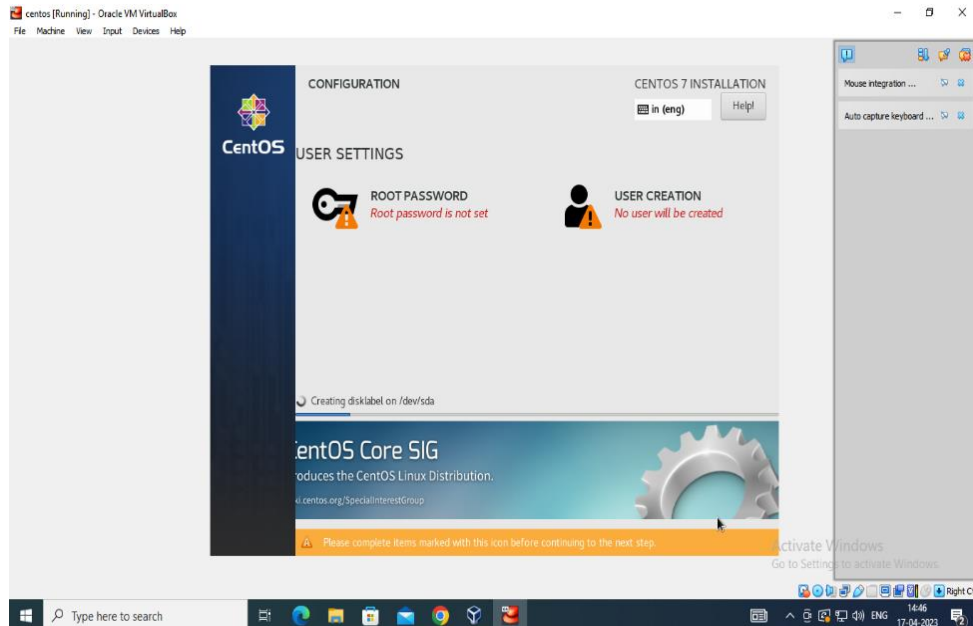**STEP2O:** Select the root password and User creation to Rectify the error

Fig20: Screenshot of Configuration of User settings

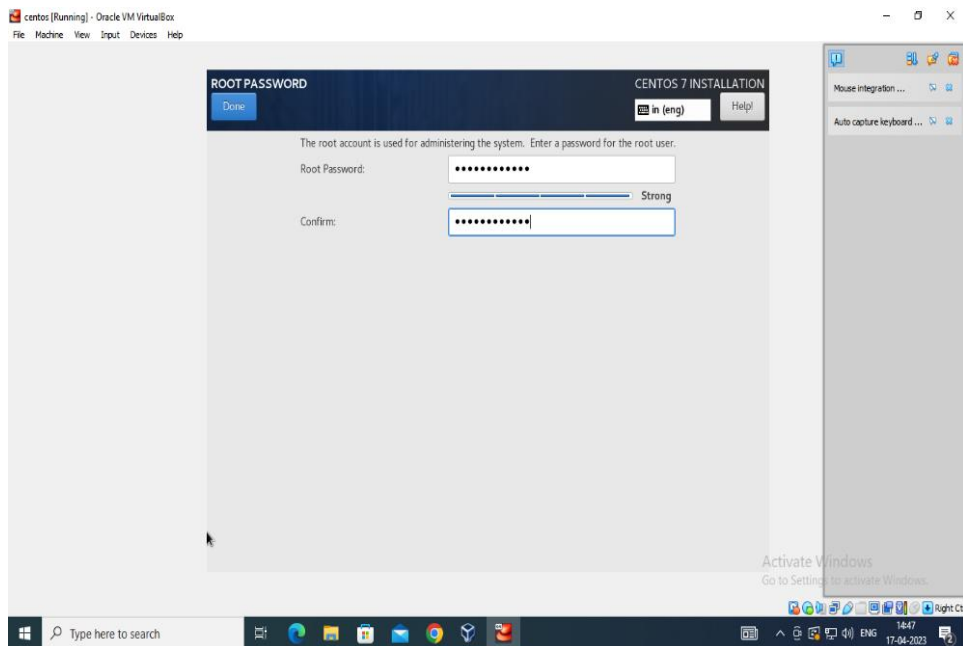**STEP21:** Enter the Root password and confirm the root .

Fig21: Screenshot of root password display box

STEP22: Enter the details like Fullname , Username , Password and reenter the password to confirm it.
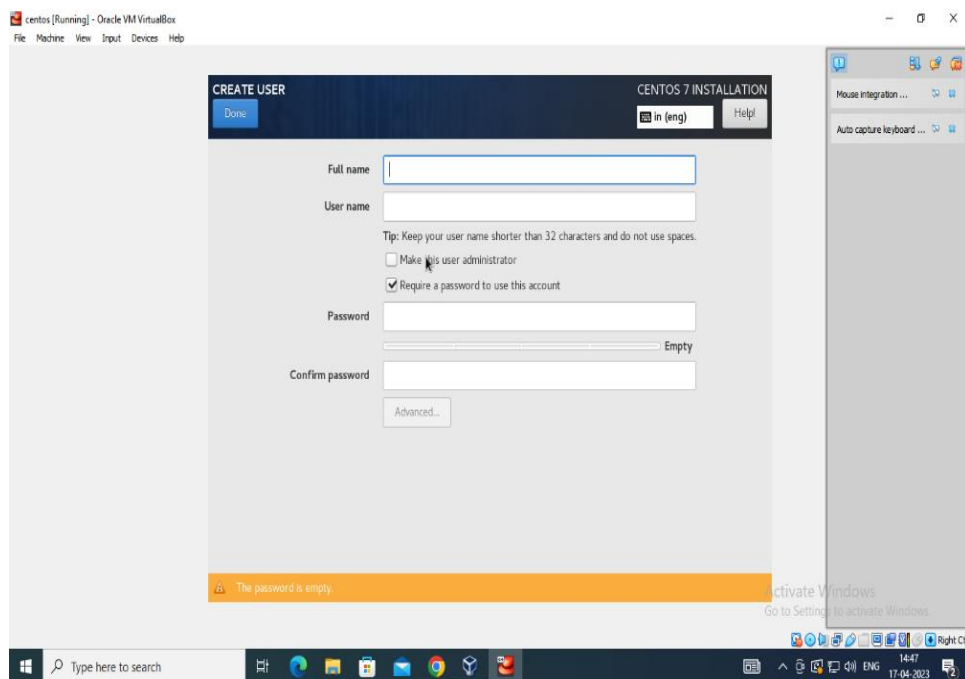

Fig22: Screenshot of display box to write full name

24

STEP23: The Below are the details that are to be entered to proceed with centOS.
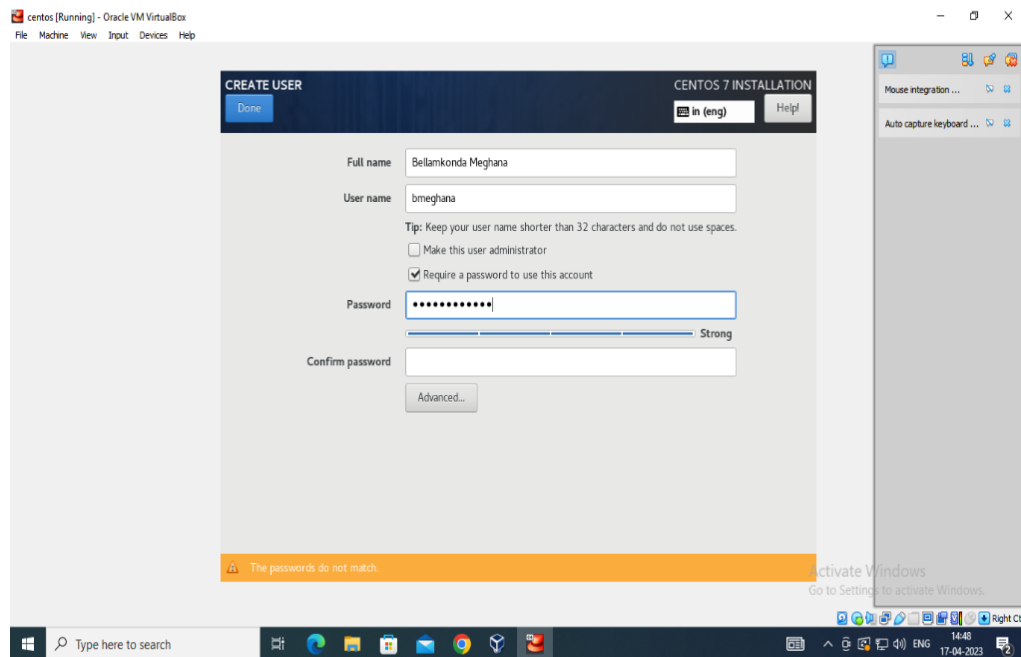

Fig23: Screenshot of display box to write Password, full name, User name

STEP24: As we have already given the ISO file path and it is auto-detected here. We do not need to doanything. Click "Done" to continue.
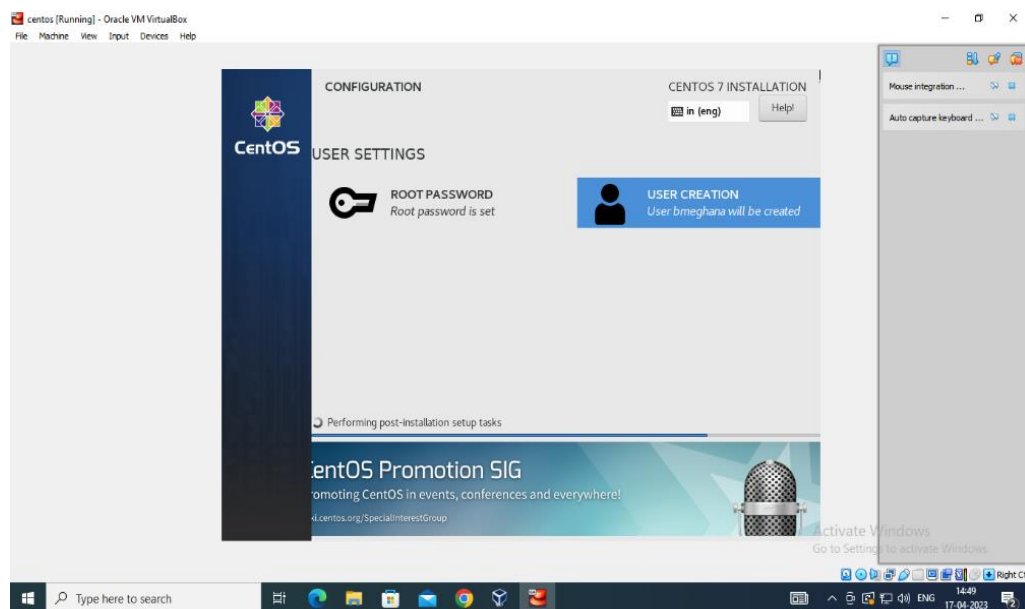

Fig24: Screenshot of creation of centOS completion

STEP25: Login to your centos os using password which was created previously.
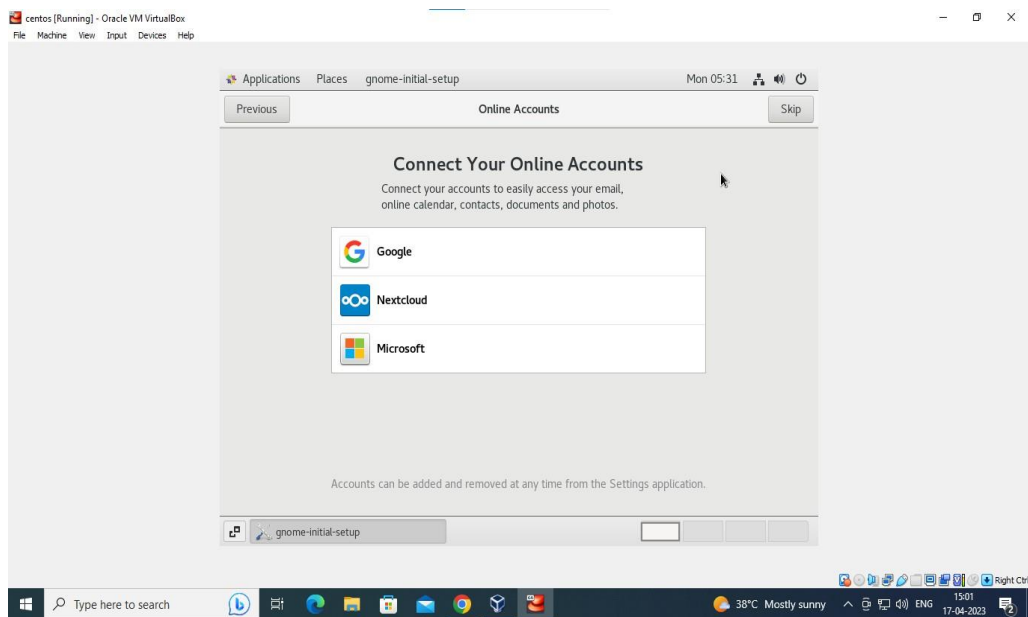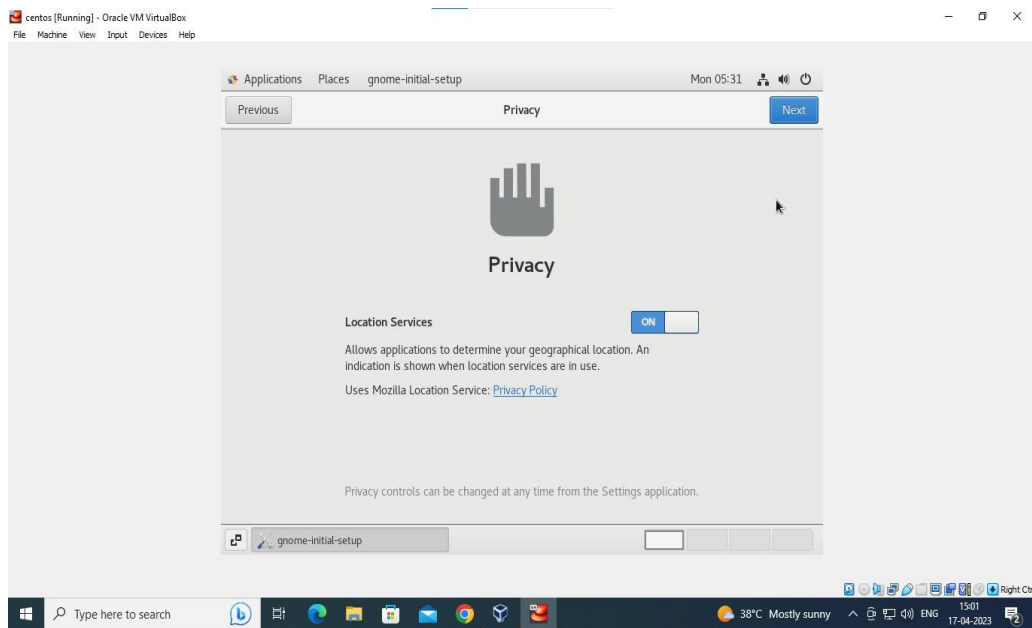

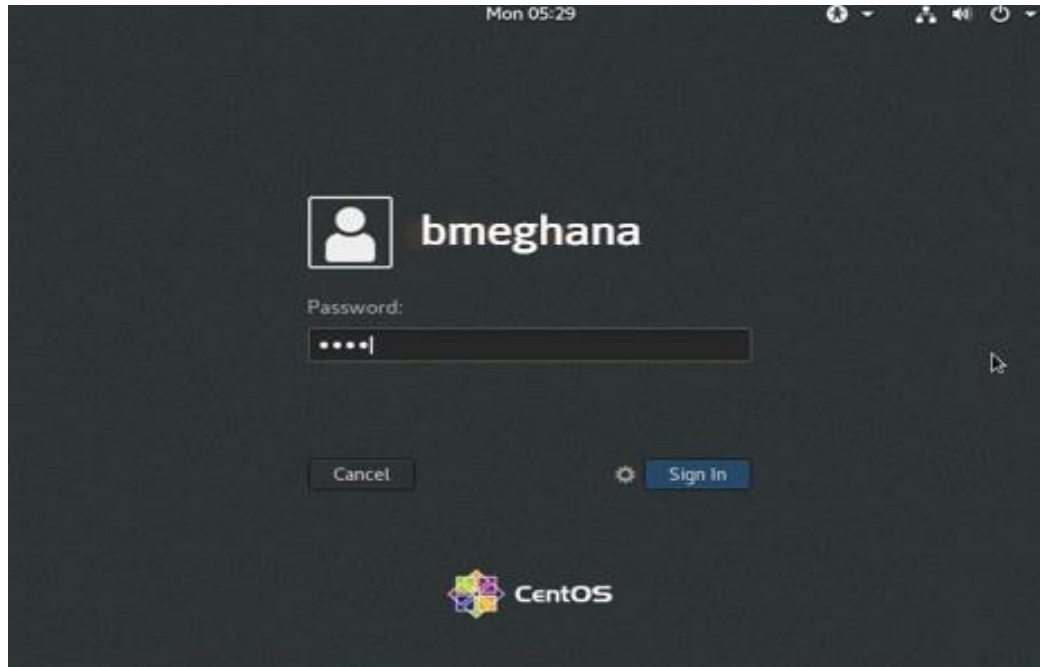**Fig25: Screenshot of creation of connections of online accounts**

STEP26: Login to localhost and enter password to proceed further by entering the details as shown below

Fig26: Screenshot of login credentials

STEP27: Allow all the privacy settings and location services

Fig27: Screenshot of user credentials and Privacy settings

   STEP28: After restarting of system a user screen will prompt for asking password login to centos andbegin using it.

Fig28: Screenshot of user credentials

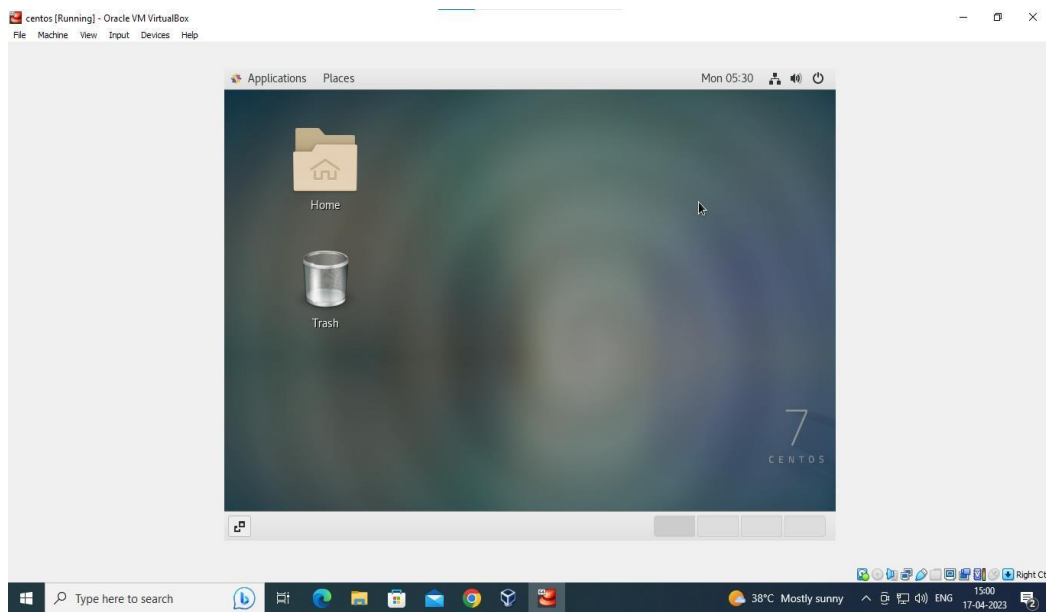**STEP29:** Login to your centos os using password which was created previously.

Fig29: Screenshot of completion of centOS

We have successfully completed the CentOS installation.

CONCLUSION: Hence, we successfully completed to install the centos in two different ways i.e., using theLVM and without using LVM.

Centos Linux distribution is widely used as system operating system and software development dueto its secure and robust features and it is the best among various Linux flavours.