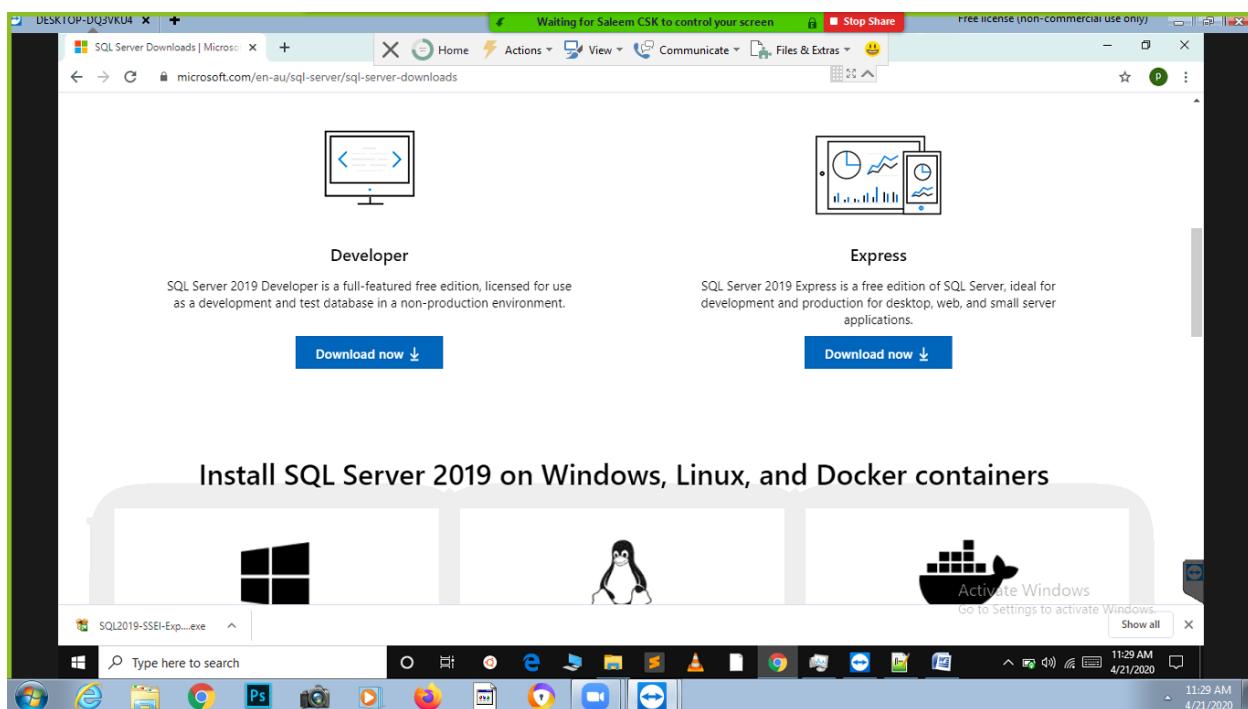


PREREQUISITES:-

- 1)MS SQL EXPRESS
- 2)SQL SERVER MANAGEMENT STUDIO
- 3)OPEN LDAP (2.4.32 VERSION)
- 4)APACHE DIRECTORY STUDIO

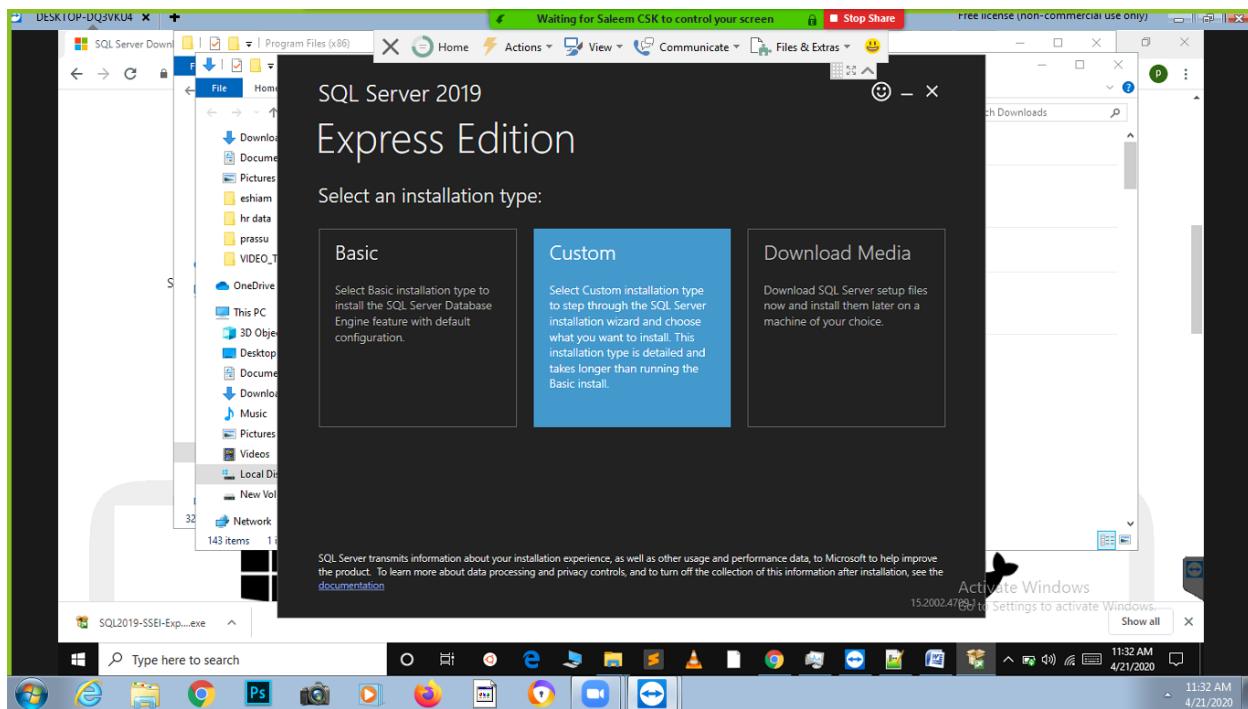
1)INSTALLATION AND SETUP OF MS SQL EXPRESS:-

- a)go to browser and type MS SQL DOWNLOAD
- b)download EXPRESS VERSION of MSSQL
- c)go to EXPRESS and click on DOWNLOAD NOW



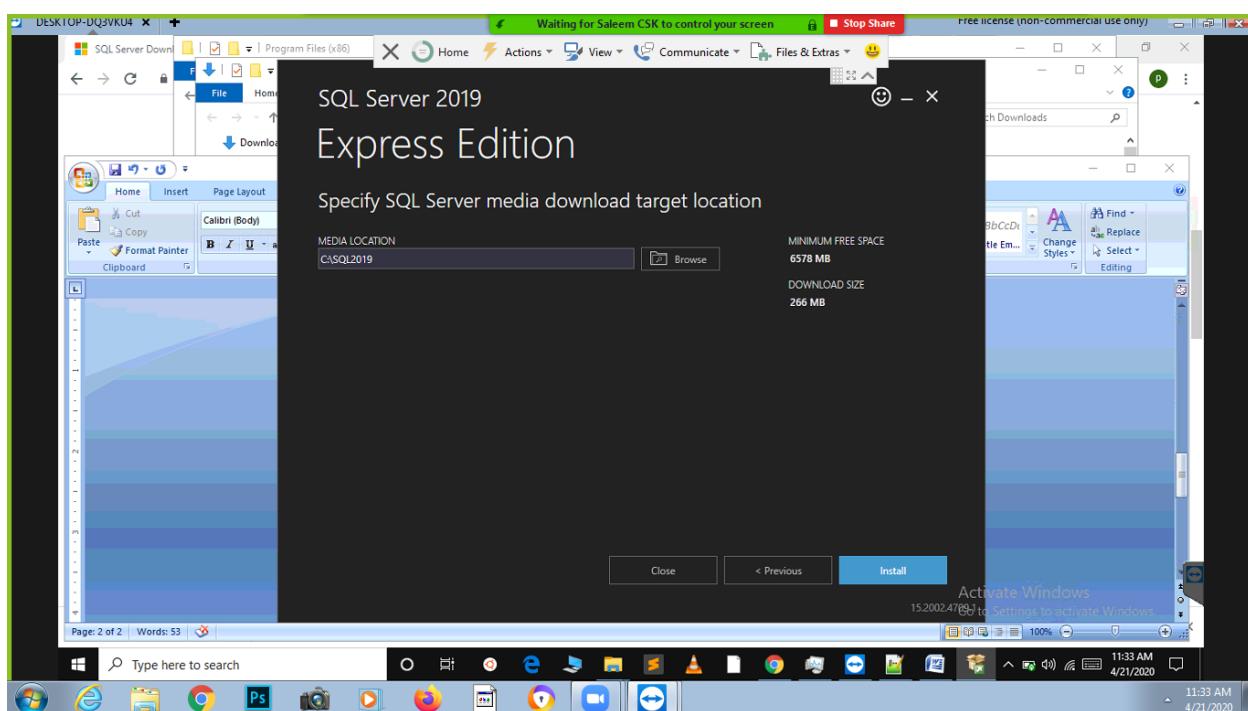
- d)Open the file after downloaded

e)click on CUSTOM tab

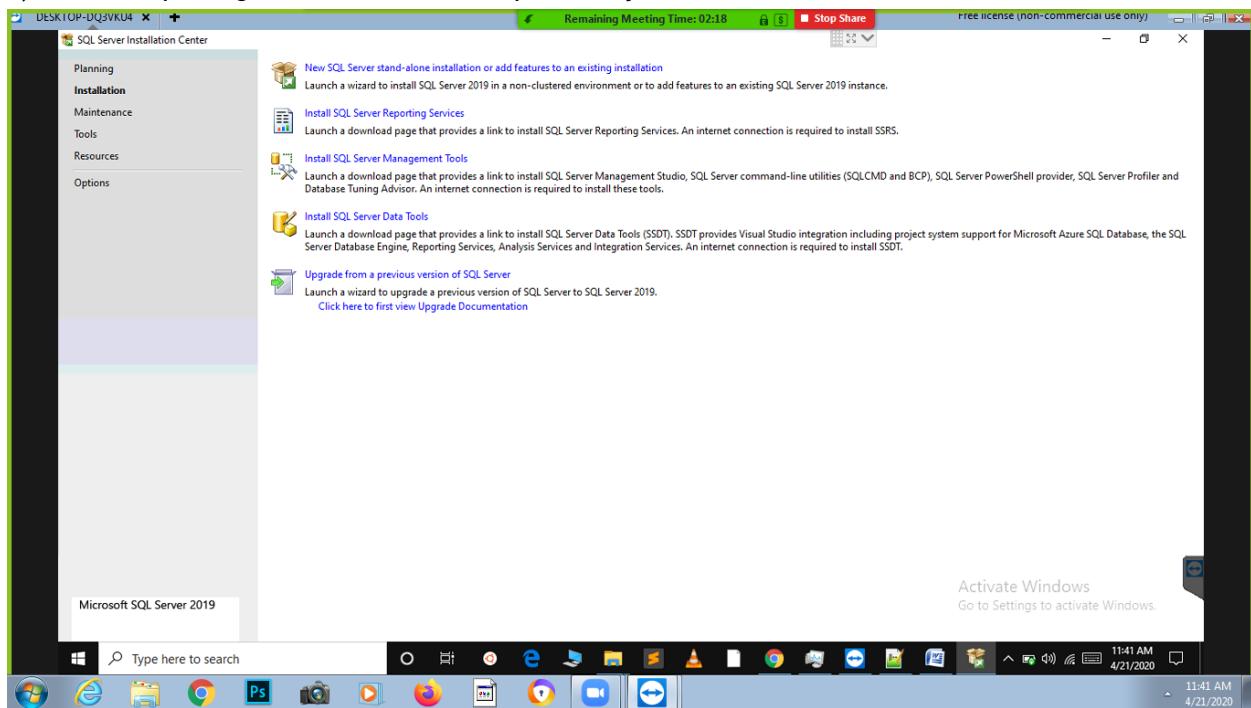


f)Select the path where you want to install the server or you can use default location

g)click on INSTALL tab



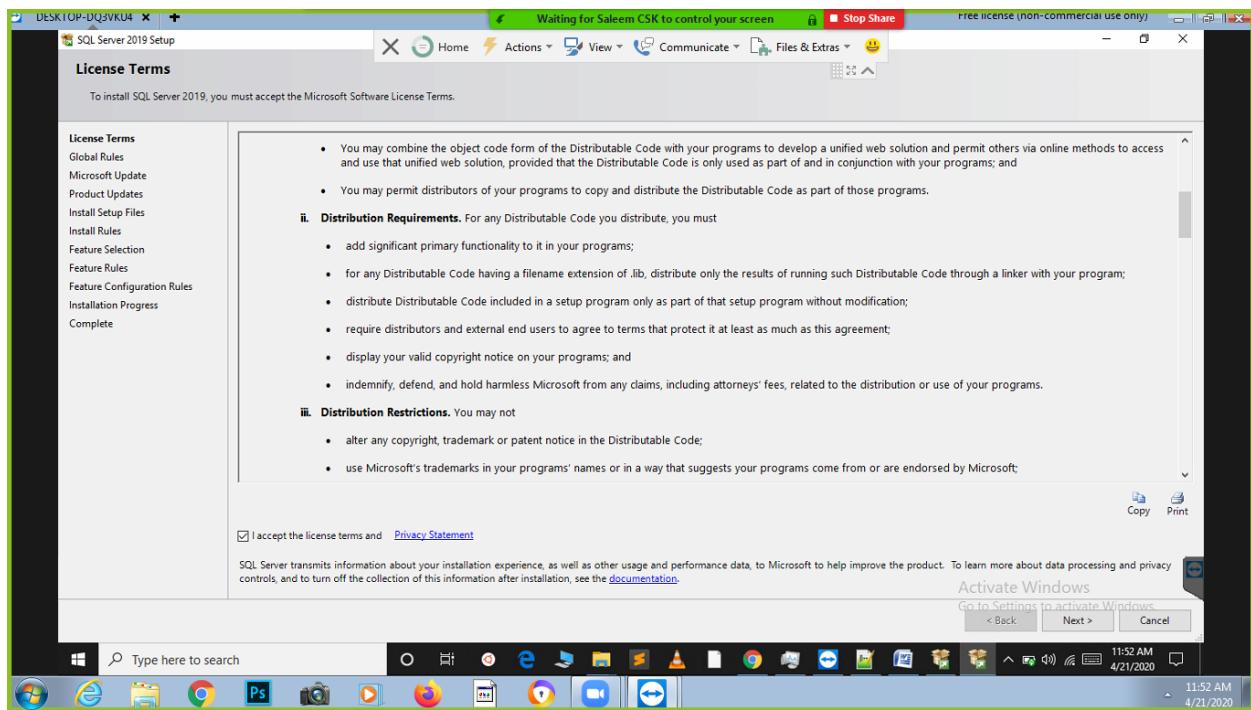
h) After completing the INSTALLATION process you will find a below tab



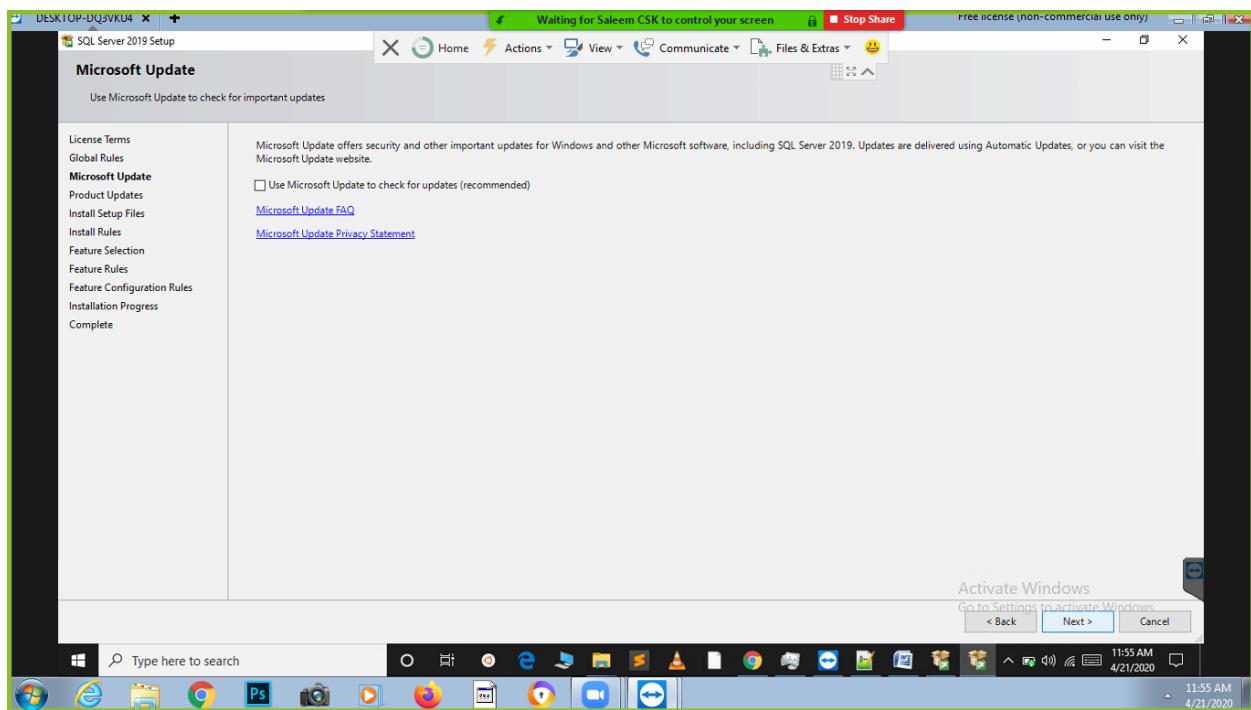
i) click on FIRST link NEW SQL SERVER STAND ALONE INSTALLATION

j) click on checkbox of I ACCEPT TERMS AND POLICIES

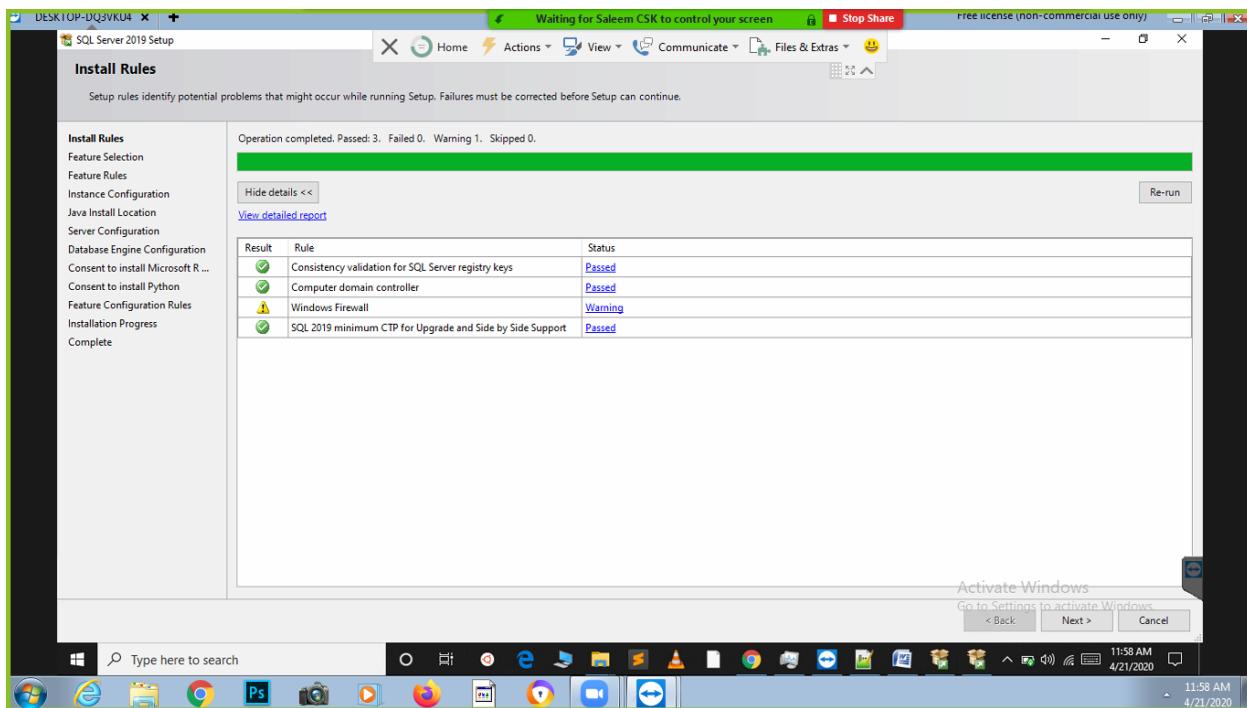
k) click on NEXT



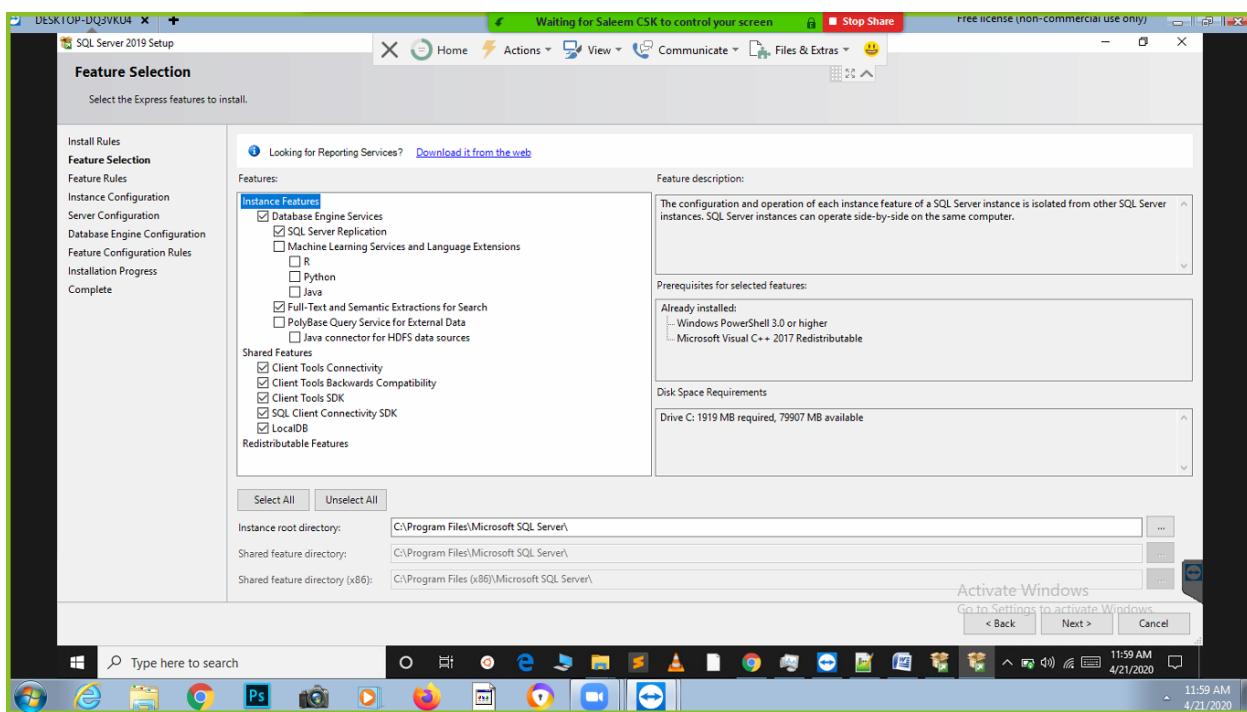
l) Again click next



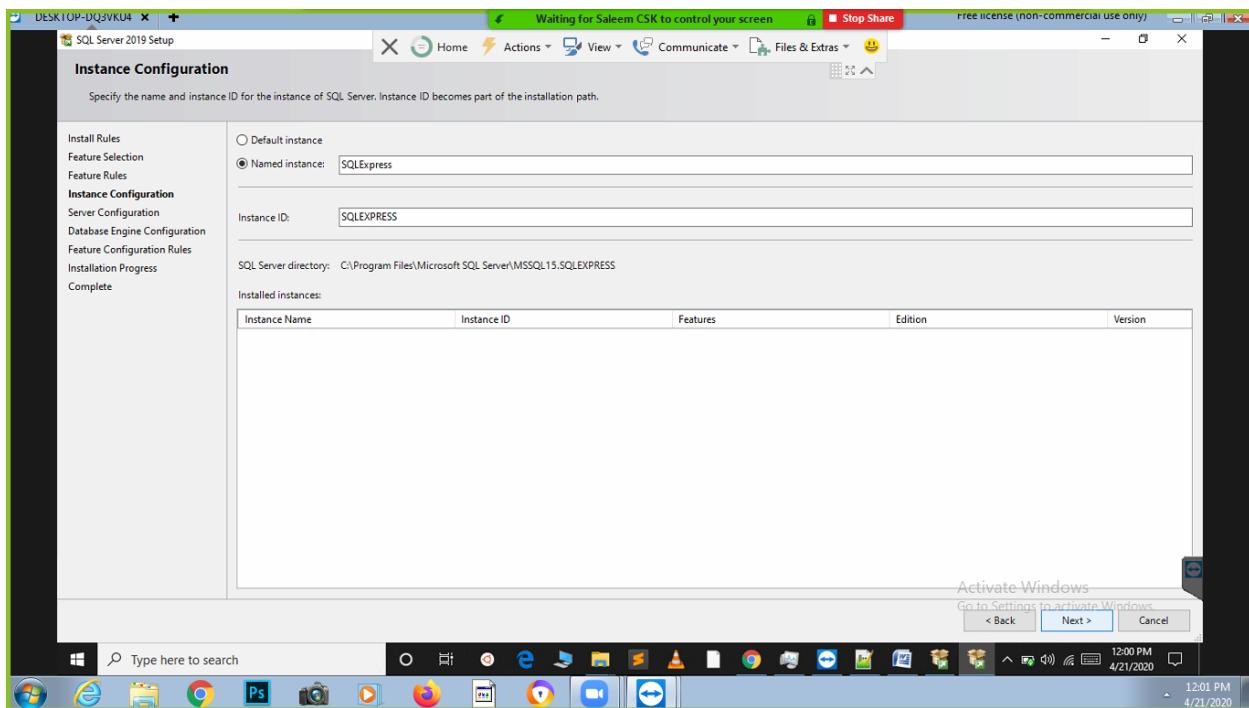
m)



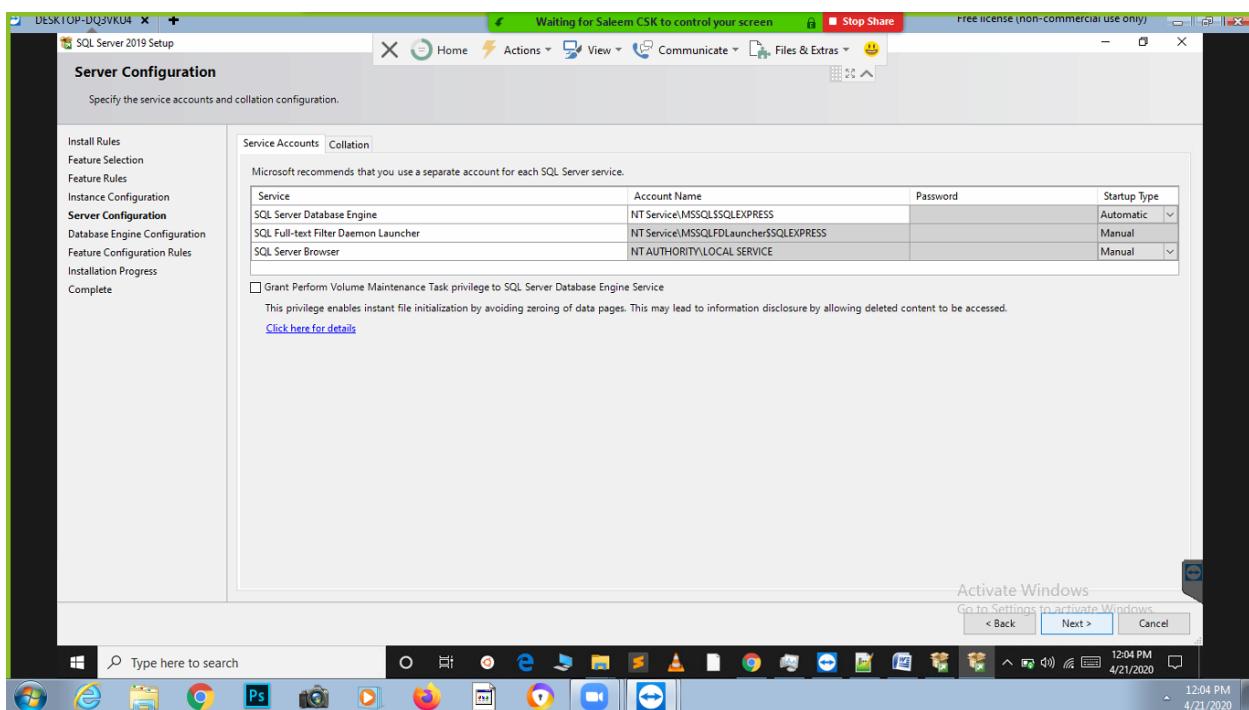
n)



o)

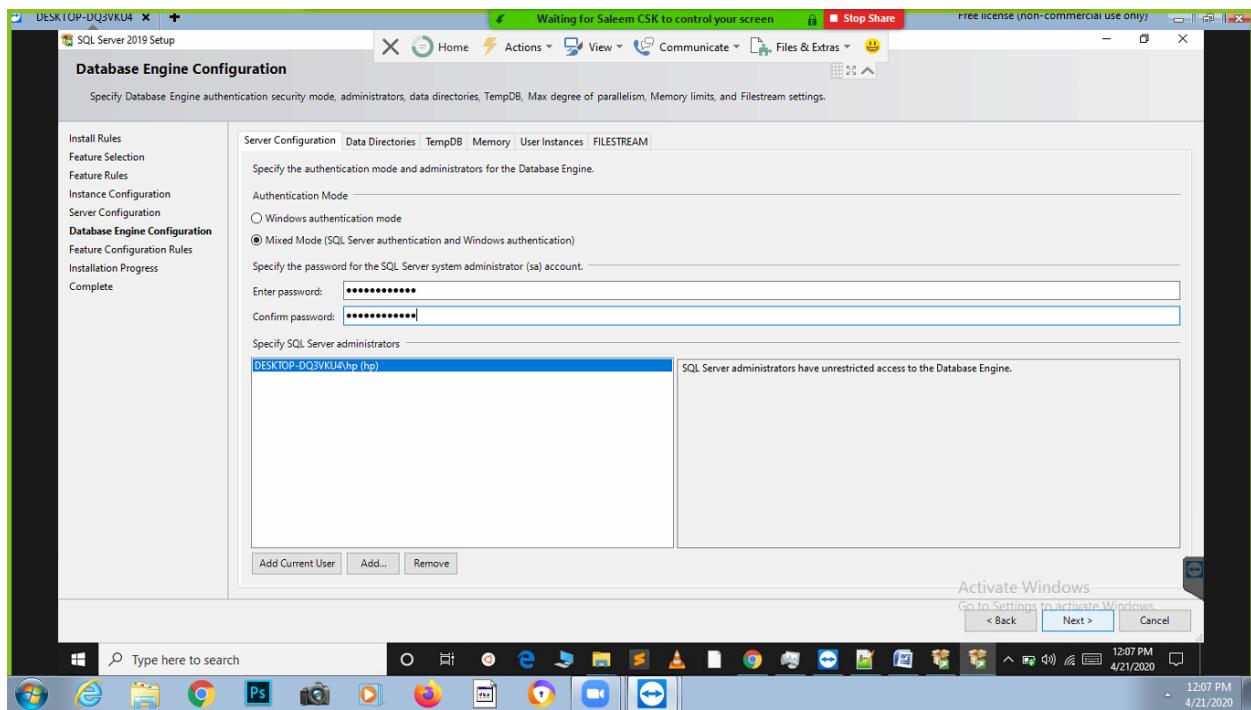


p)select the SQL SERVER BROWSER Start up type as MANUAL



q)Then click on NEXT

r)select the MIXED MODE and set the password as you required

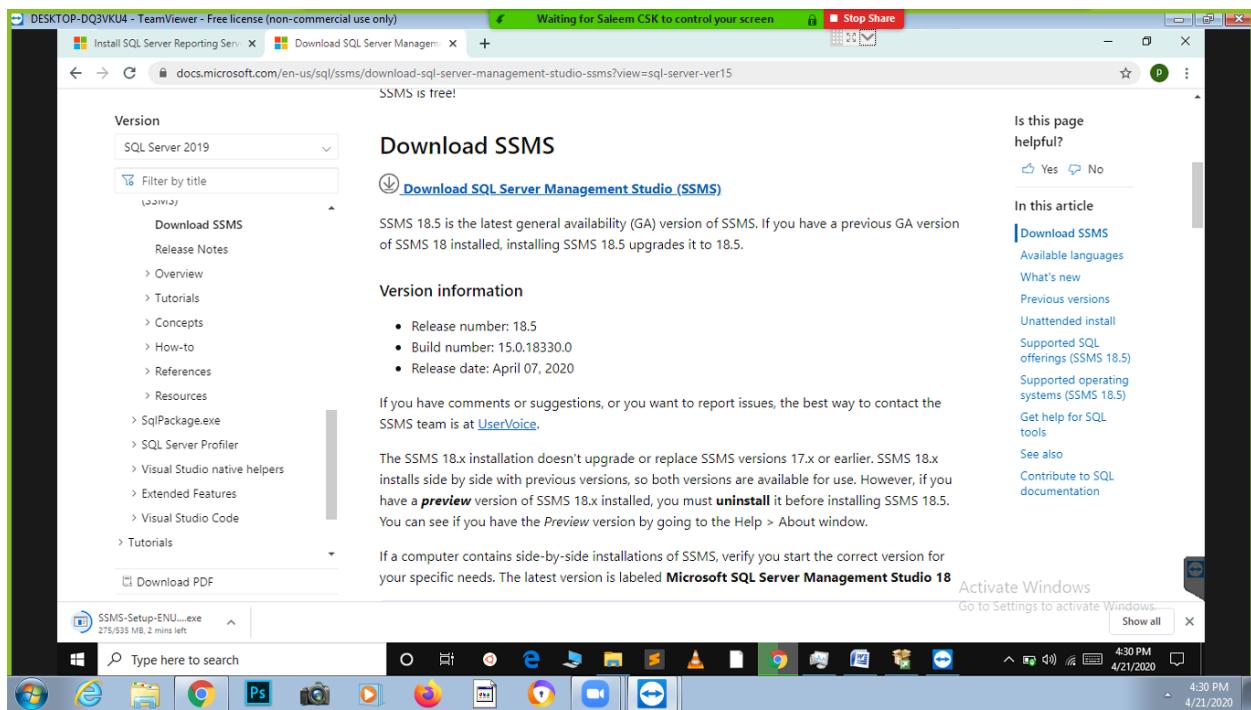


s)click on NEXT

t)If the status of all the domains is success then click on FINISH or if anything fails setup the system again....

2) DOWNLOAD AND INSTALLATION OF SQL SERVER MANAGEMENT STUDIO

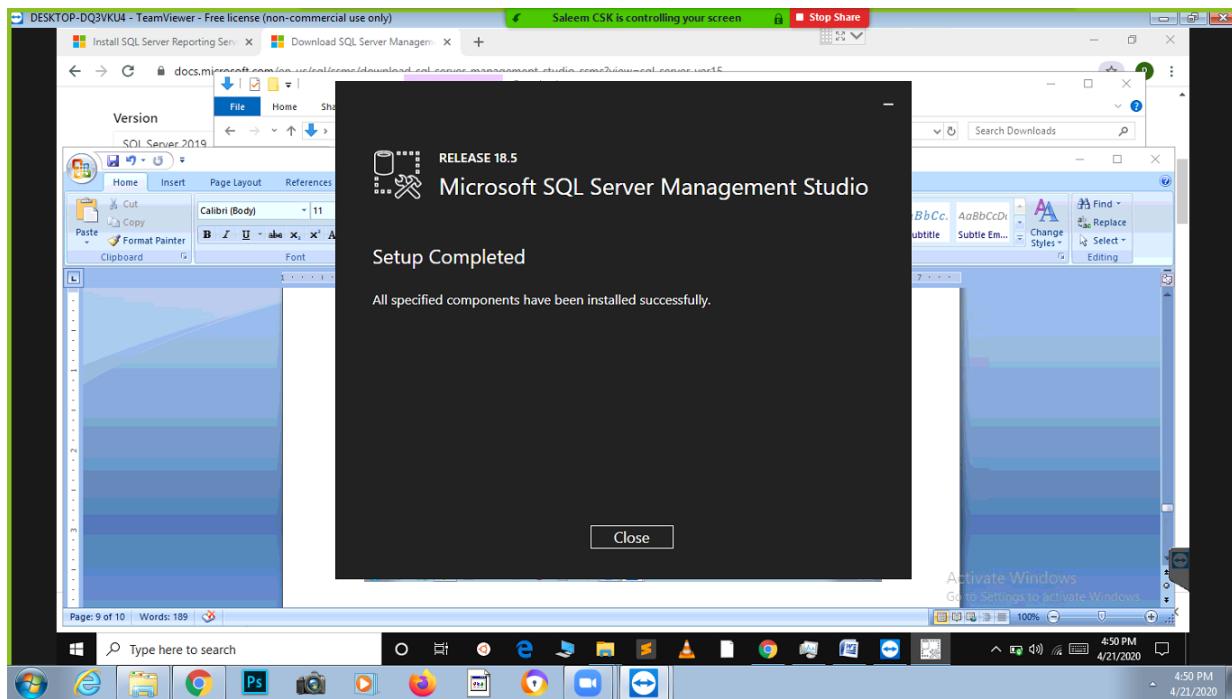
A) Search for the latest version in the browser and download it

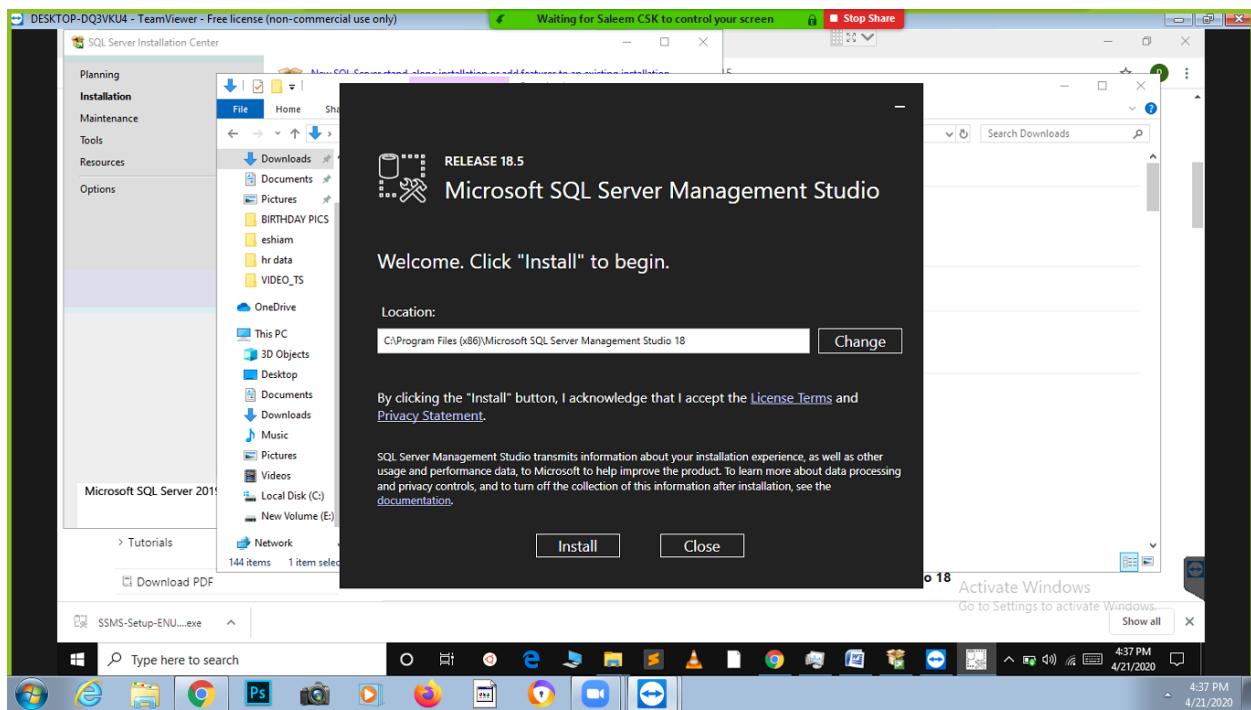


B)Open the file after downloaded

C)click on install tab

d)After completing the installation click on close



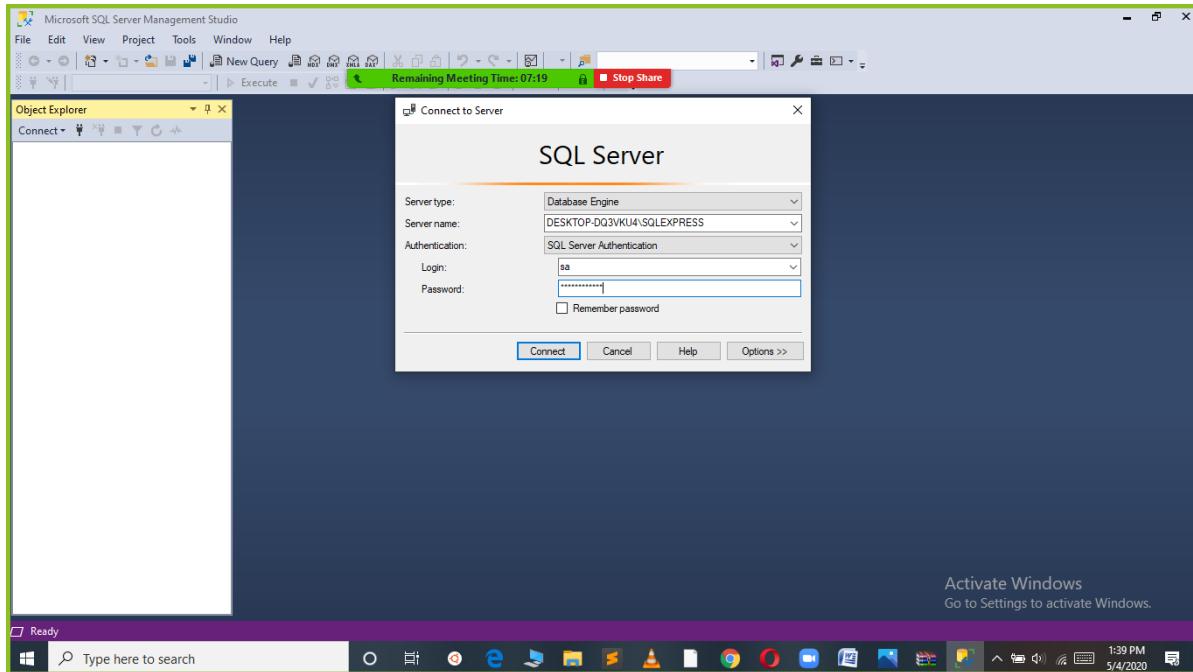


Installation of Open Ldap(2.4.32)

- 1) Link to download open ldap
- 2) <https://sourceforge.net/projects/openldapwindows/files/openldap-2.4.32/>
- 3) Extract the zip file
- 4) After installation click on Next & accepts license agreement
- 5) Select path location to install open ldap
- 6) After that run the scripts in mssms to set up ldap
- 7) Open ssms and Select the server type as database engine
- 8) Server name as desktop name
- 9) Select sql server authentication

10) Select login name "sa"

11) Enter the password which you have entered while sql server installation



12)click on query and select sql cmd mode

13)run the below scripts

14) :r C:\OpenLDAP\etc\back-sql\01_Create_Database.sql

15) :r C:\OpenLDAP\etc\back-sql\02_BacksqL_Create.sql

16) :r C:\OpenLDAP\etc\back-sql\03_Testdb_Create.sql

17) :r C:\OpenLDAP\etc\back-sql\04_Testdb_Metadata.sql

18) :r C:\OpenLDAP\etc\back-sql\05_Testdb_Data.sql

19):r C:\OpenLDAP\etc\back-sql\06_Create_Login.sql

20)

```

SQLQuery1.sql - DESKTOP-DQ3VKU4\SQLEXPRESS.TestLDAP (sa (53)) - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
TestLDAP Execute Stop Share
Object Explorer
Connect Databases Security Server Objects Replication PolyBase Management XEvent Profiler
SQLQuery1.sql - DES...TestLDAP (sa (53)) * 
:r C:\OpenLDAP\etc\back-sql\01_Create_Database.sql
:r C:\OpenLDAP\etc\back-sql\02_Backsol_Create.sql
:r C:\OpenLDAP\etc\back-sql\03_Testdb_Create.sql
:r C:\OpenLDAP\etc\back-sql\04_Testdb_Metadata.sql
:r C:\OpenLDAP\etc\back-sql\05_Testdb_Data.sql
:r C:\OpenLDAP\etc\back-sql\06_Create_Login.sql

100 % - 
Messages
The ALL permission is deprecated and maintained only for compatibility. It DOES NOT imply ALL permissions defined on the entity.
The ALL permission is deprecated and maintained only for compatibility. It DOES NOT imply ALL permissions defined on the entity.
The ALL permission is deprecated and maintained only for compatibility. It DOES NOT imply ALL permissions defined on the entity.
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The ALL permission is deprecated and maintained only for compatibility. It DOES NOT imply ALL permissions defined on the entity.
The ALL permission is deprecated and maintained only for compatibility. It DOES NOT imply ALL permissions defined on the entity.
Completion time: 2020-05-04T14:00:22.3371521+05:30

100 % - 
Activate Windows
Ready
Type here to search
Ln 6 Col 48 Ch 48 INS
DESKTOP-DQ3VKU4\SQLEXPRESS...TestLDAP 00:00:05 0 rows
2:01 PM 5/4/2020

```

21)Go to cmd pmp and Now Start the LDAP Server

```

File Home Share View
Walking for Saleem CSK to control your screen Stop Share
Name
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.778]
(c) 2019 Microsoft Corporation. All rights reserved.

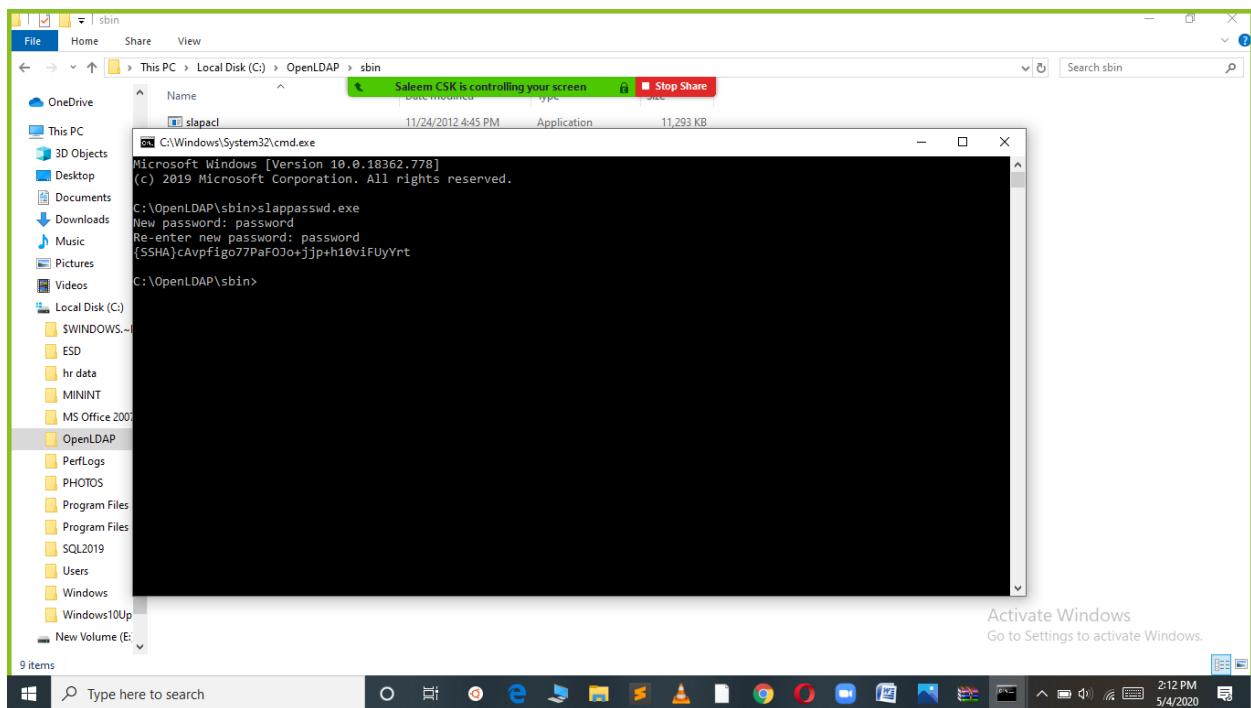
C:\OpenLDAP\libexec>StartLDAP.cmd

Activate Windows
Go to Settings to activate Windows.

```

23)Create a New Password for LDAP Server

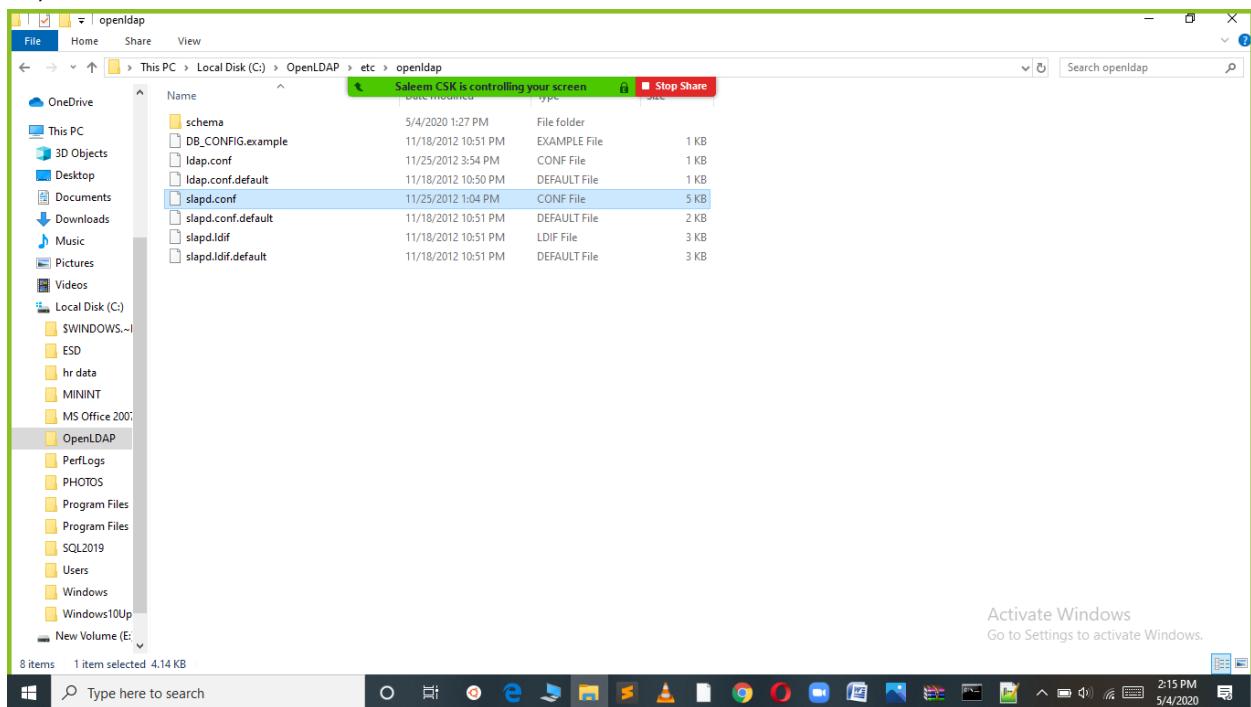
24)Go to below cmd pmp directory to create password



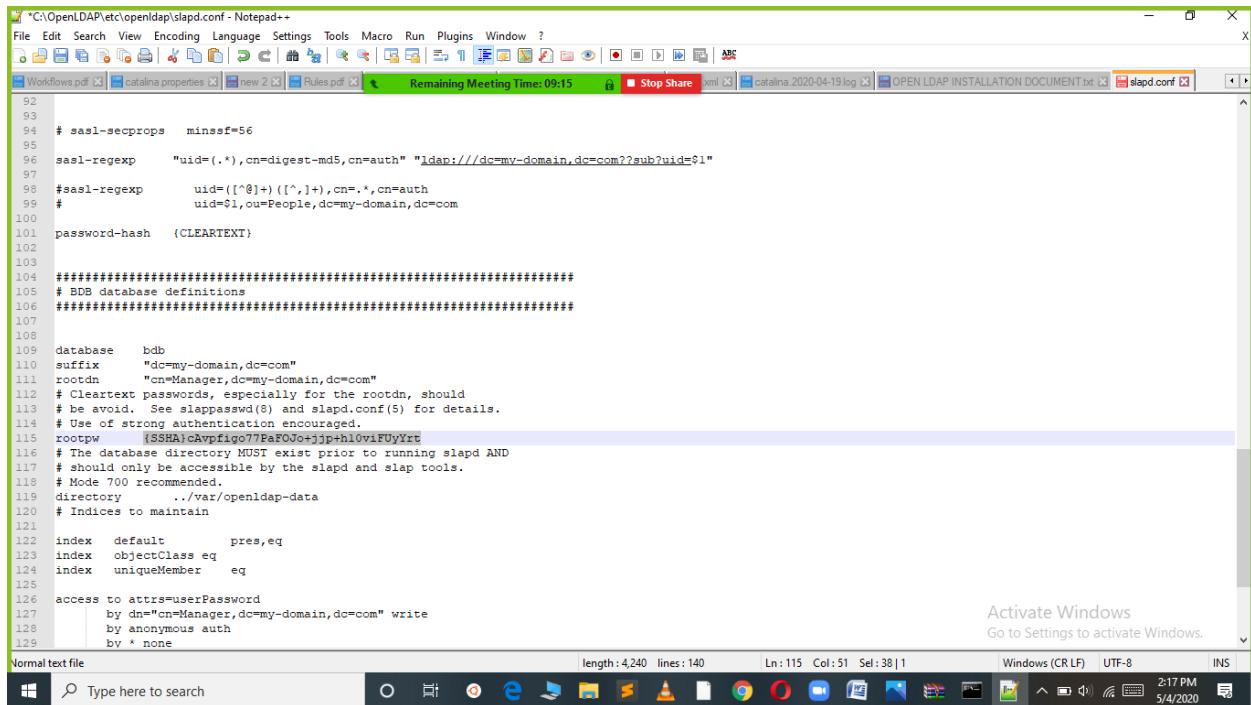
25)Select and copy the text after re entering the password

26)paste the text in to slap.conf file

27)



28) paste the text in rootpw



The screenshot shows a Windows desktop with a Notepad++ window open. The window title is "C:\OpenLDAP\etc\openldap\slapd.conf - Notepad++". The code in the editor is the slapd.conf configuration file. The root password is highlighted in blue. The status bar at the bottom right shows "Activate Windows Go to Settings to activate Windows." The taskbar below the window contains icons for various applications like File Explorer, Task View, Edge, FileZilla, and others.

```
82
83
84 # sasl-secprops minssf=56
85
86 sasl-regexp "uid=(.*),cn=digest-md5,cn=auth" "ldap:///dc=my-domain,dc=com??sub?uid=$1"
87
88 #sasl-regexp uid=(^*)([^,]*),cn=.,cn=auth
89 # uid=$1,ou=People,dc=my-domain,dc=com
90
91 password-hash {CLEARTEXT}
92
93 #####
94 # BDB database definitions
95 #####
96
97 database bdb
98 suffix "dc=my-domain,dc=com"
99 rootdn "cn=Manager,dc=my-domain,dc=com"
100 # Cleartext passwords, especially for the rootdn, should
101 # be avoided. See slappasswd(8) and slapd.conf(5) for details.
102 # Use of strong authentication encouraged.
103 rootpw $(SSHA)cAvpIgo77FaFOJo+jjp+hl0viFuyrt
104 # The database directory MUST exist prior to running slapd AND
105 # should only be accessible by the slapd and slap tools.
106 # Mode 700 recommended.
107 directory ../../var/openldap-data
108 # Indices to maintain
109
110 index default pres,eq
111 index objectClass eq
112 index uniqueMember eq
113
114 access to attrs=userPassword
115 by dn="cn=Manager,dc=my-domain,dc=com" write
116 by anonymous auth
117 by * none
118
119
120
121
122
123
124
125
126
127
128
129
```

29) save the slapd config file

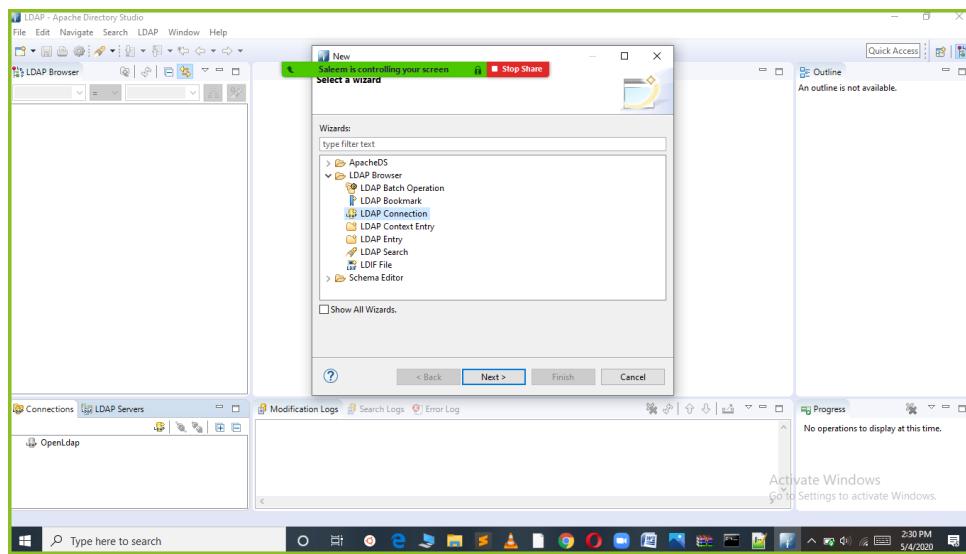
30) Now restart the ldap Server

31) to restart go to openldap> libexec> startldap

32) Now Download Apache Directory Studio

33) Open Apache Directory To Establish Connection

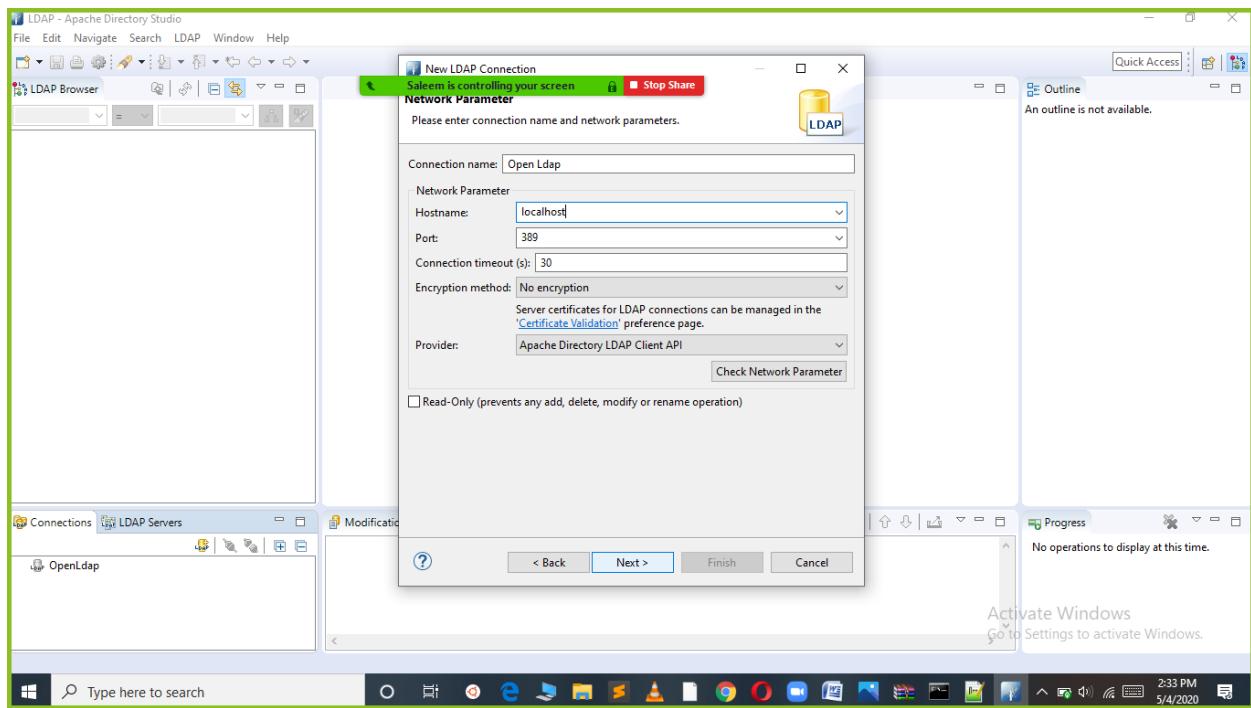
Select File>New>Ldap Browser >Ldap Connections



34)Click on Next

35)enter connection name and host name details

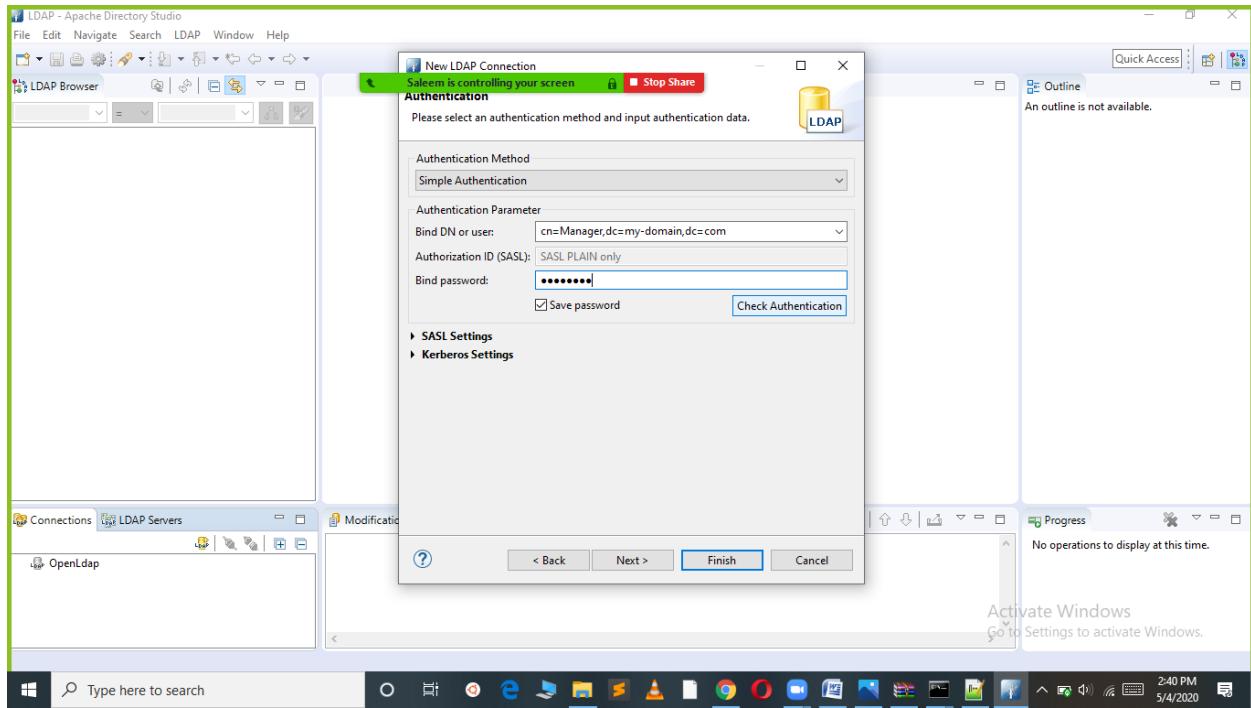
36)



36) Click on next

37)Enter bind or user name as cn=Manager,dc=my-domain,dc=com

38)



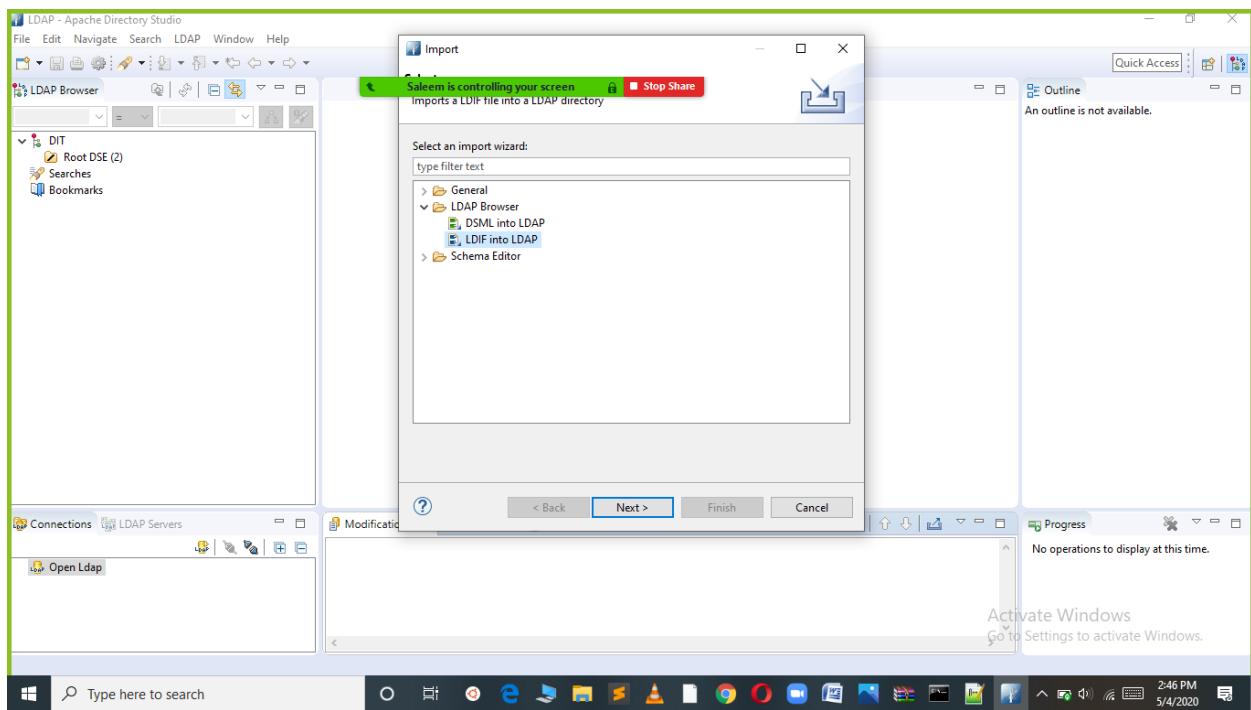
36) Enter the password which you have created in ldap cmd server

37)click on finish

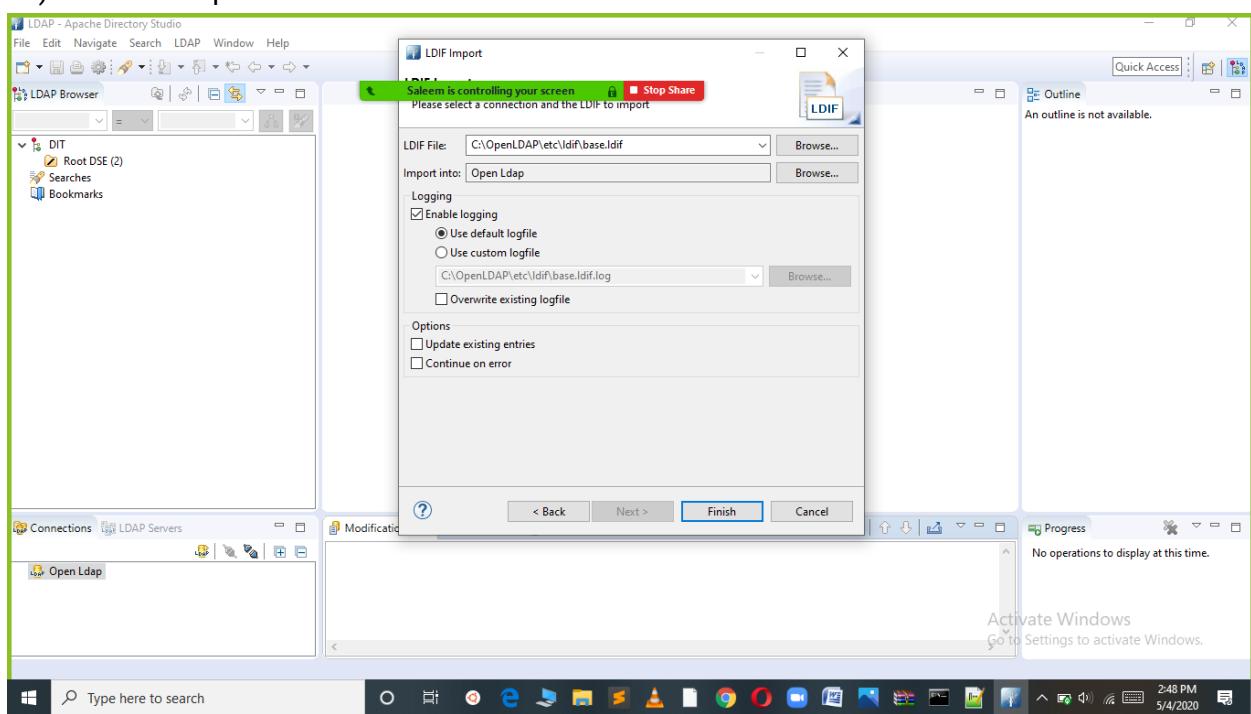
38)now add domain and users in to apache

39)Go to File >import >Select the ldif file

40)

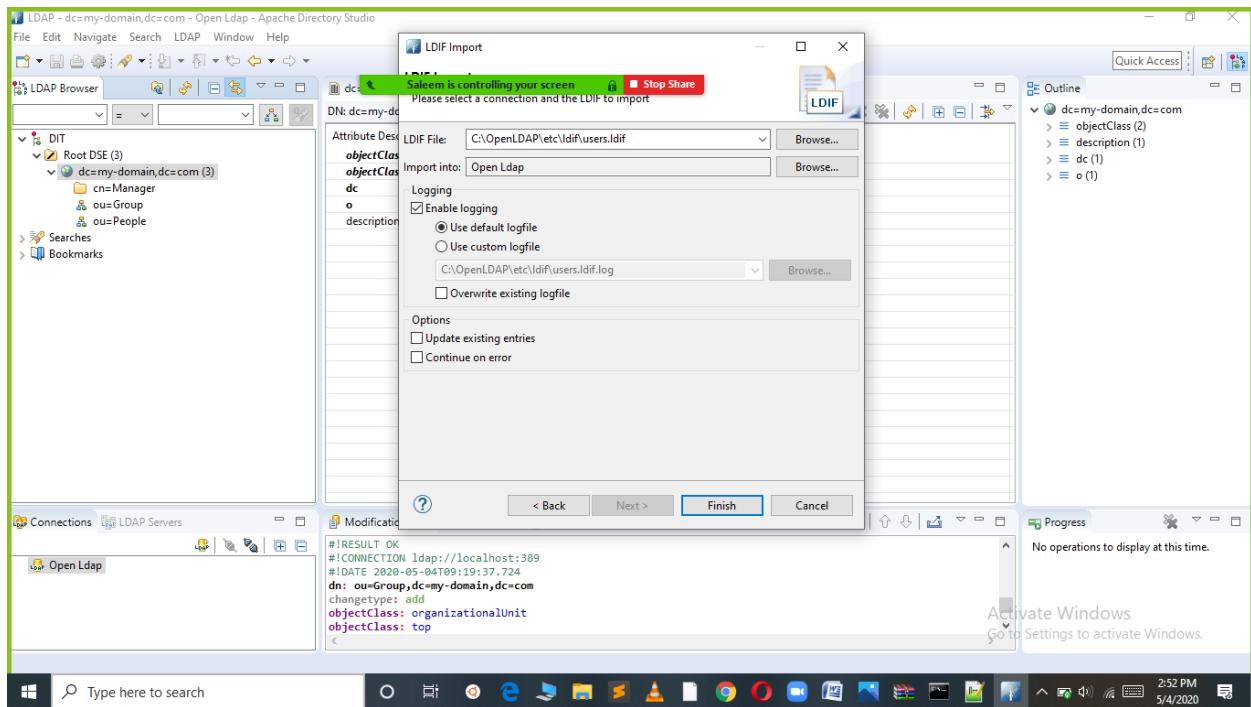


40)Now set the path and add base.ldif file



40)To add Users same procedure as above

41)Go to File>Import>Set the path browse to user.ldif file



Open Ldap Setup Is Finished.

