

CCTNS Offline Application Package Installation Manual on Windows (32bit) For Core Application Software (CAS) Crime and Criminal Tracking Network and Systems (CCTNS)

Submitted to:



National Crime Records Bureau
Ministry of Home Affairs
Government of India

Submitted By
Wipro Limited



Confidentiality

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PROJECT CONTROL

Project Code:	NCRB-ADMS-FPP-201102
Project Name:	Crime and Criminal Tracking Network and Systems
Location:	NCRB, New Delhi
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DOCUMENT CONTROL

Version	Date of Revision	Description for Change	Reason for Change	Affected Sections	Prepared By	Approved By
1.0	01/03/2013	First Version	----	All	Dibyanshu Verma	
2.0	25/05/2013	Changed release version to 2.4.5h	----	Installation Procedure	Vikas Thapliyal	
3.0	20/06/2013	Changed release version to 2.4.5L	----	Installation Procedure	Vikas Thapliyal	Nitin Arora
4.0	31/07/2013	Changed release version to 2.4.5 p	----	Installation Procedure	Vikas Thapliyal	Raman Gulati
5.0	12/08/2013	-Added font dependency -Changed release version to 2.4.5 q	----	-Dependents and Requirements -Installation Procedure	Vikas Thapliyal	Raman Gulati
6.0	23/08/2013	Changed release version to 2.4.5 r	----	Installation Procedure	Vikas Thapliyal	Raman Gulati
7.0	06/09/2013	-Changed release version to 2.4.5 s -Changed screenshot for review. -Added screenshot for creating icon.	----	Installation Procedure	Vikas Thapliyal	Raman Gulati
8.0	30/09/2013	Changed release version to 2.4.6	----	Installation Procedure	Vikas Thapliyal	Raman Gulati
9.0	31/10/2013	-Changed release version to 2.4.8 -Added a note for availability of version number in main jar file.	----	Installation Procedure	Vikas Thapliyal	Raman Gulati
10.0	15/01/2014	-Changed release version to 3.0 -changed screenshot for input of manual data. -added font pre-requisite -	----	Installation Procedure	Vikas Thapliyal	Raman Gulati

Approved by: Raman Gulati
Date: 15/01/2014

Authorized by:
Date:

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1 Introduction

This document is intended to provide the steps to install CCTNS Offline Server Application.

2 Hardware & Software Configuration

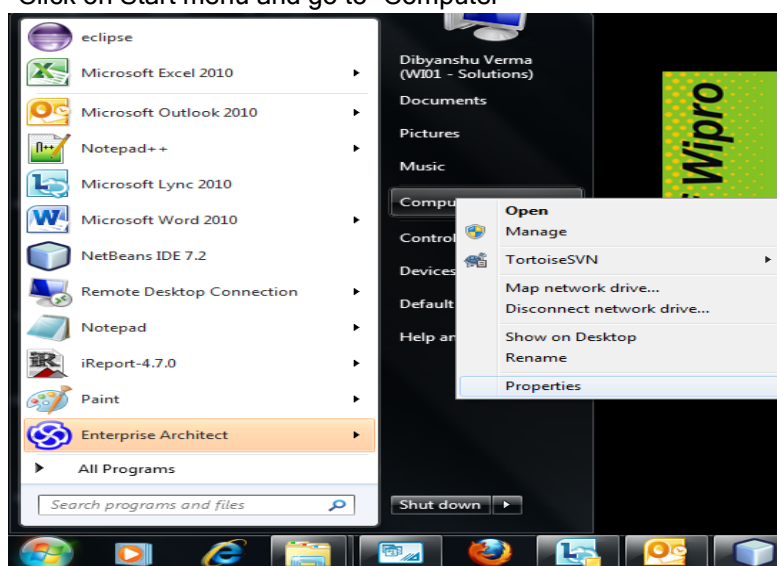
Server Machine	
Memory	4 GB RAM preferred, 2 GB RAM minimum
Storage	60 GB hard disk.
Monitor	Any monitor supporting 1024x768 screen resolution.
I/O Devices	Compatible key board, mouse, NIC , Network cable.
Operating System	Windows XP or above

3 Dependents and Requirements

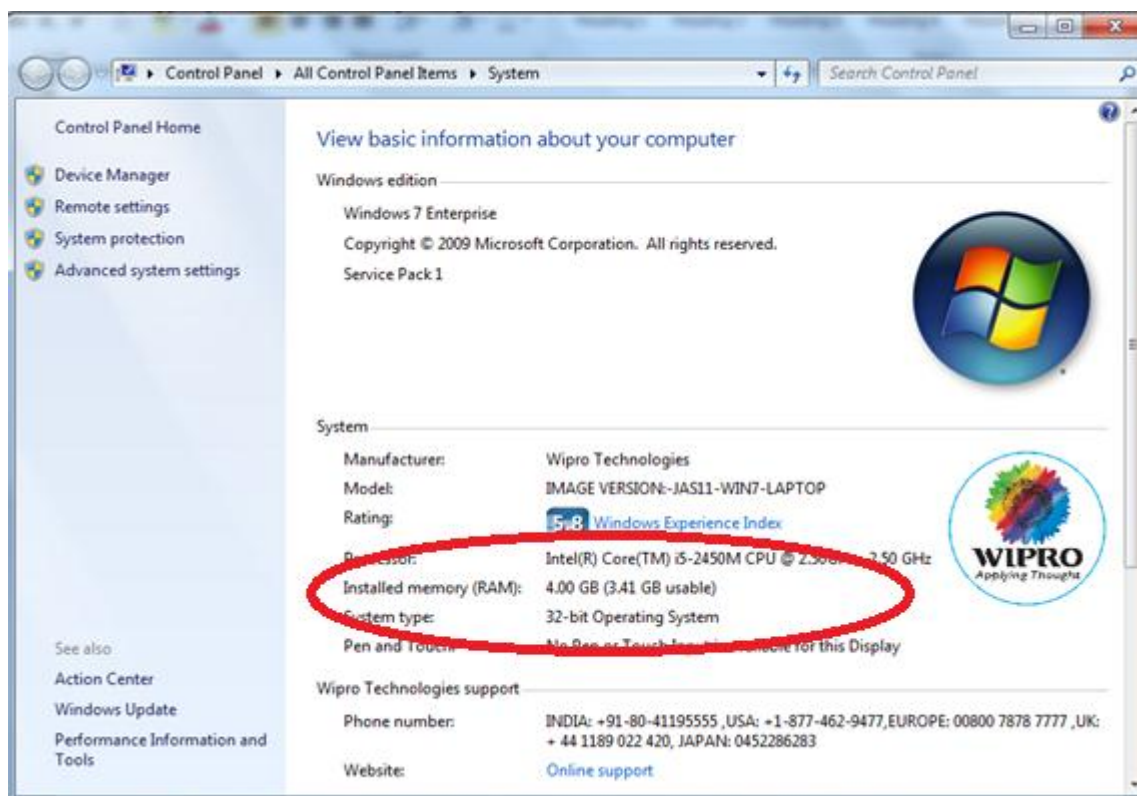
- 1) Xcopy command should be present and must work.
- 2) D:\ drive should be available in your system, as most recent operating system doesn't provide write access of primary partition i.e. C: drive. If there is no secondary partition, please contact your system administrator get write permission on the primary partition.
- 3) You must ensure the version of windows you are installing the application.
- 4) "Times New Roman" , "Mangal" and "Arial Unicode MS" font should be installed. Font can also be manually installed from the Installation Directory **Dependency\fonts**

4 Know Your WINDOWS Version

1. Click on Start menu and go to "Computer"



2. Right click on "Computer" icon and click on properties. The screen below will get open.



The area marked in red is showing the version of Windows (here it is 32 -bit).

5 Installation Procedure (Complete installation)

You should be logged in with a user having **administrator** privileges.

This will install Offline version 3.0

NOTE:

1. The release version number is incorporated in main jar file (CCTNS_Offline_Application.jar).
2. This procedure is to be used on computers on which Offline server application is going to be installed for the first time.

To find out whether Offline server application is installed on your system, check if the directory **C:\CCTNSApplication** exists, if yes, it is installed, and you need to install with incremental installation provided separately.

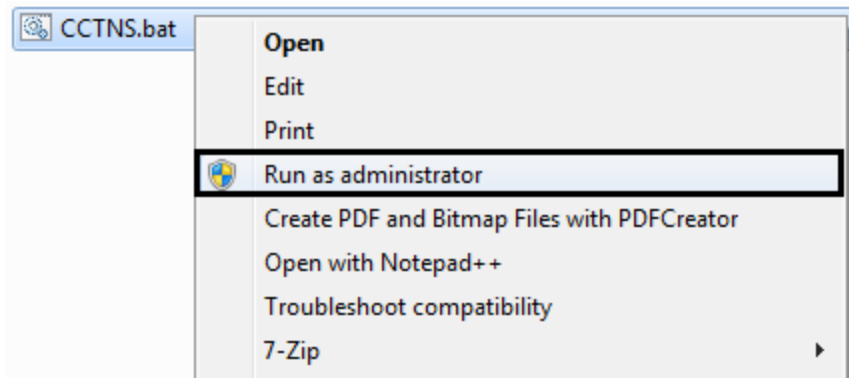
3. This procedure will delete the old offline database (if exists) and create a blank database, if you want to preserve the old database, then take a backup of the database "cctns_offline_db_sync_proc"
4. MySQL command to take backup: `mysqldump -uroot -p[<root-password>] --routines cctns_offline_db_sync_proc > <LocalPathForOutput>/Offline_backup_<Date>.sql`
Example : `mysqldump -uroot -proot--routines cctns_offline_db_sync_proc > D:/DB_backup/Offline_backup_01-Jan-2014.sql`
5. All the user(s) should be Logged off before executing the setup. Else the setup will fail.
6. If some errors are encountered while installing the file "C:\cctns_offline_installation_log\simple.log" can be referred.

Step1) Put the CD inside the CD-ROM, whatever you got from the NCRB Team, or browse to the latest release downloaded from NCRB website, whatever you got from the NCRB Team.

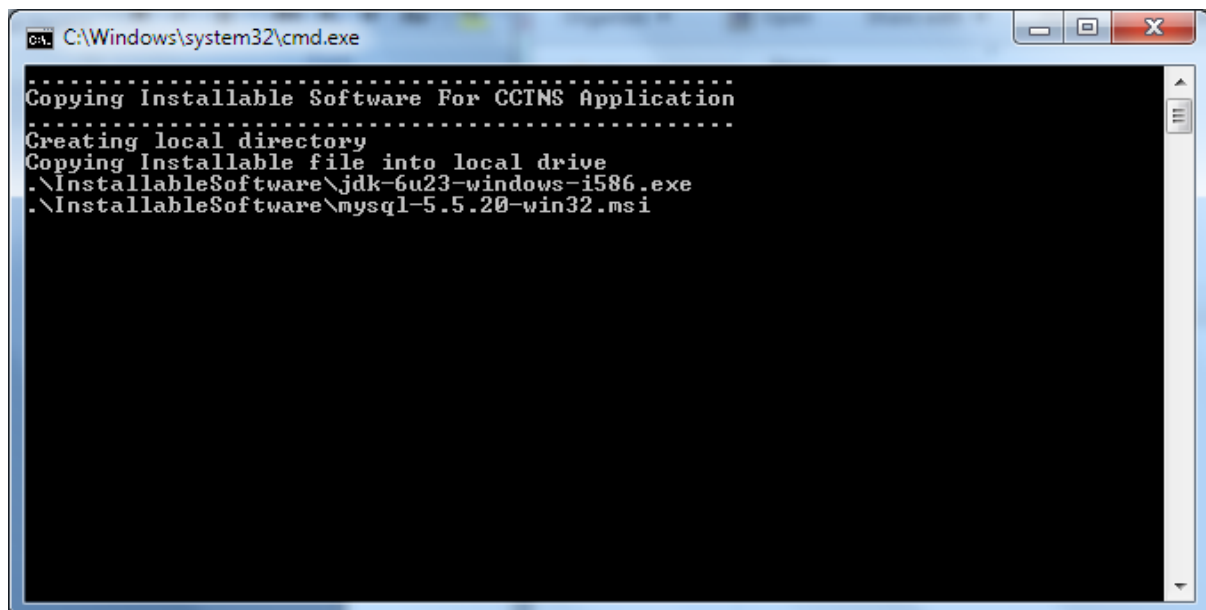
Step2) You will find there two folders one for installation 32 bit and one for installation on 64 bit system. Browse “Server CCTNS Application” Folder for respective bit operating system. Once you open the Folder you will get the CCTNS.bat file.

On Windows XP, Double click the CCTNS.bat file.

On Windows 7, right click on file CCTNS.bat and click on **Run as Administrator**, as show below.

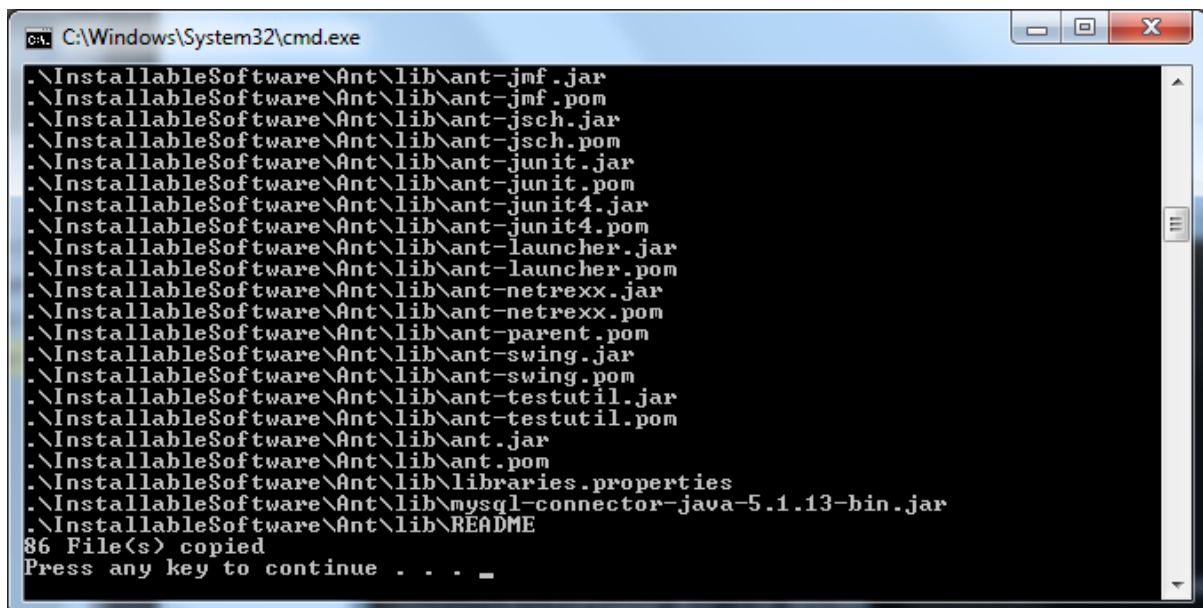


Step3) Utility will automatically copy the installation software inside the temp folder. You will get the below screen.



```
C:\Windows\system32\cmd.exe
Copying Installable Software For CCTNS Application
.....
Creating local directory
Copying Installable file into local drive
.\InstallableSoftware\jdk-6u23-windows-i586.exe
.\InstallableSoftware\mysql-5.5.20-win32.msi
```

Once copying is done, all the CCTNS related software are placed inside the temp folder and user gets the below screen.

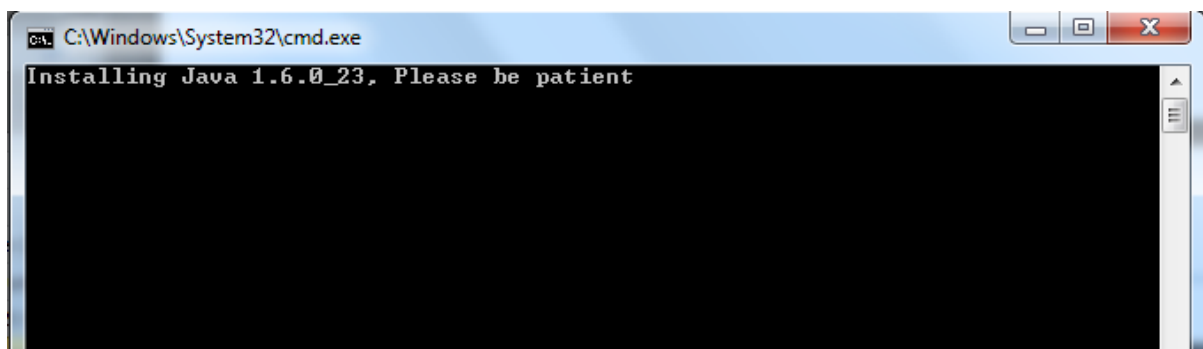


```
C:\Windows\System32\cmd.exe

.\InstallableSoftware\Ant\lib\ant-jmf.jar
.\InstallableSoftware\Ant\lib\ant-jmf.pom
.\InstallableSoftware\Ant\lib\ant-jsch.jar
.\InstallableSoftware\Ant\lib\ant-jsch.pom
.\InstallableSoftware\Ant\lib\ant-junit.jar
.\InstallableSoftware\Ant\lib\ant-junit.pom
.\InstallableSoftware\Ant\lib\ant-junit4.jar
.\InstallableSoftware\Ant\lib\ant-junit4.pom
.\InstallableSoftware\Ant\lib\ant-launcher.jar
.\InstallableSoftware\Ant\lib\ant-launcher.pom
.\InstallableSoftware\Ant\lib\ant-netrexx.jar
.\InstallableSoftware\Ant\lib\ant-netrexx.pom
.\InstallableSoftware\Ant\lib\ant-parent.pom
.\InstallableSoftware\Ant\lib\ant-swing.jar
.\InstallableSoftware\Ant\lib\ant-swing.pom
.\InstallableSoftware\Ant\lib\ant-testutil.jar
.\InstallableSoftware\Ant\lib\ant-testutil.pom
.\InstallableSoftware\Ant\lib\ant.jar
.\InstallableSoftware\Ant\lib\ant.pom
.\InstallableSoftware\Ant\lib\libraries.properties
.\InstallableSoftware\Ant\lib\mysql-connector-java-5.1.13-bin.jar
.\InstallableSoftware\Ant\lib\README
86 File(s) copied
Press any key to continue . . .
```

Press the Enter Key.

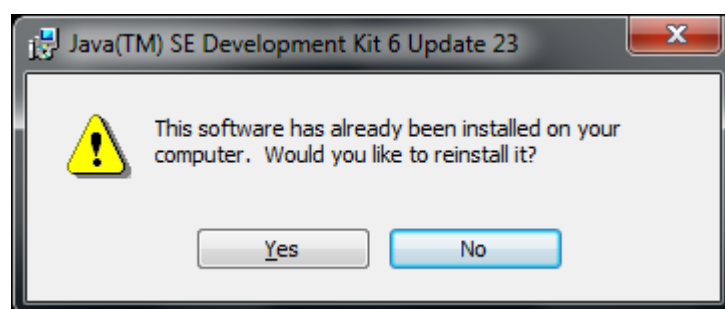
Step4) Now JDK will be installed



```
C:\Windows\System32\cmd.exe

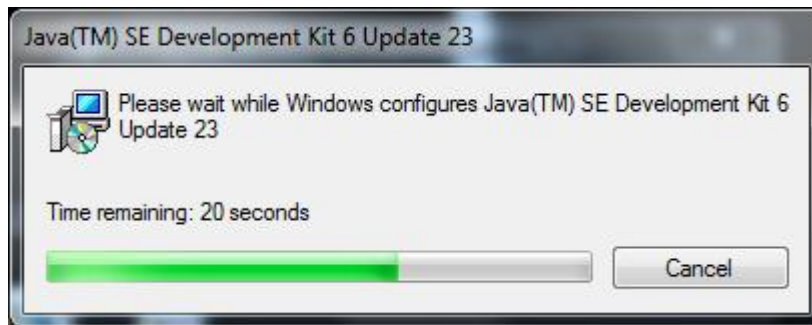
Installing Java 1.6.0_23, Please be patient
```

If JDK is already present, it will prompt whether or not you want to reinstall JDK, press the No button as shown below.



If JDK is not found, you will get the below screen.

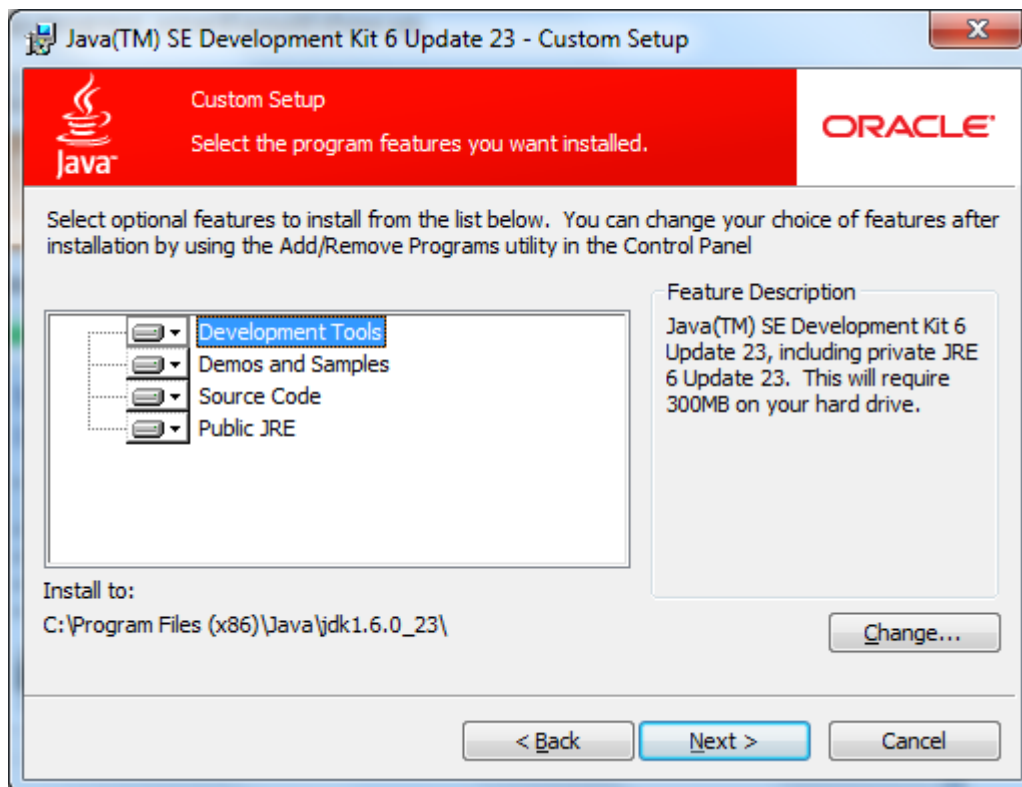
1: You will see a window as shown below.



2: Now a "License Agreement" window opens. Just read the agreement and click "Accept" button to accept and go further.

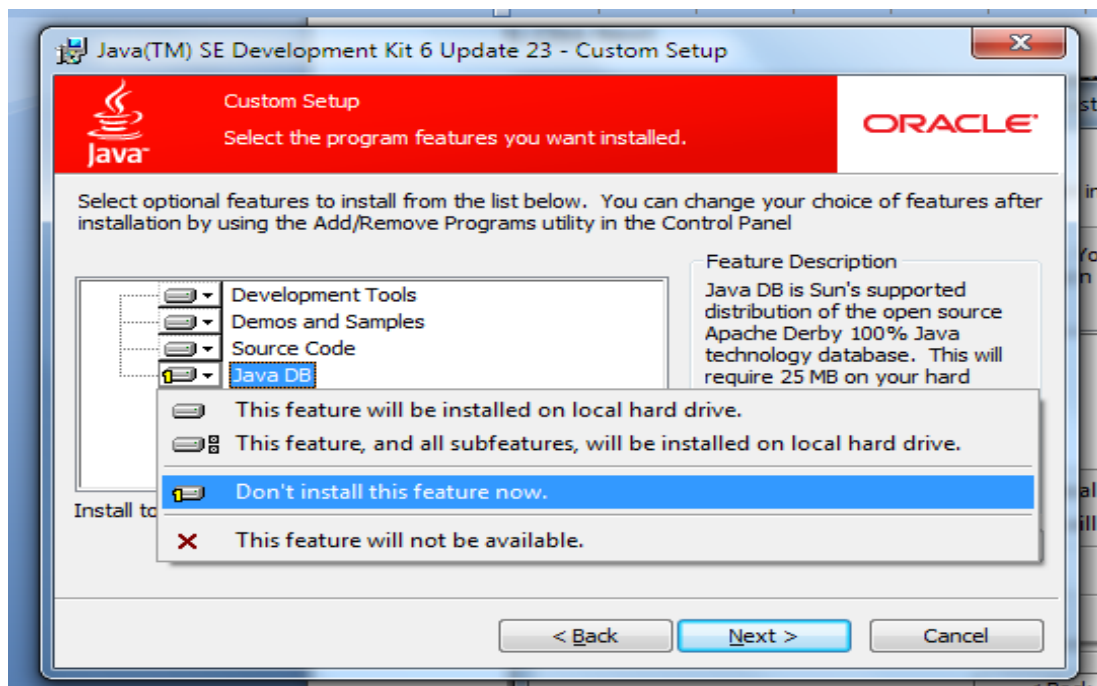


3: Now a "Custom Setup" window opens.

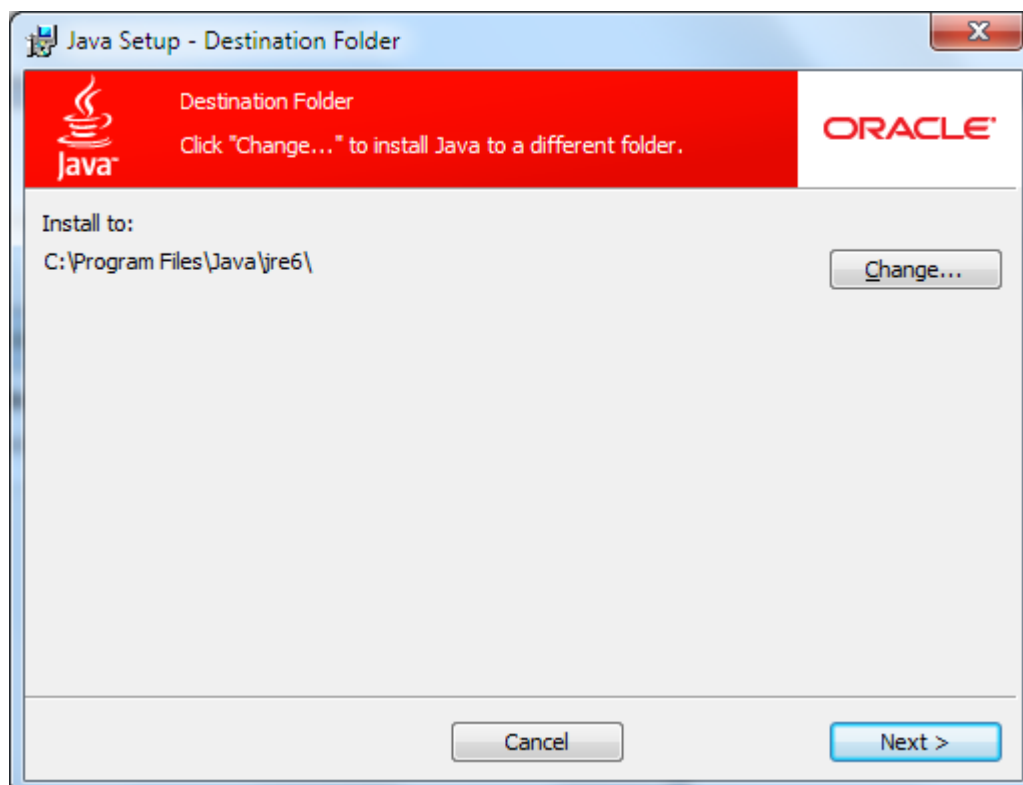
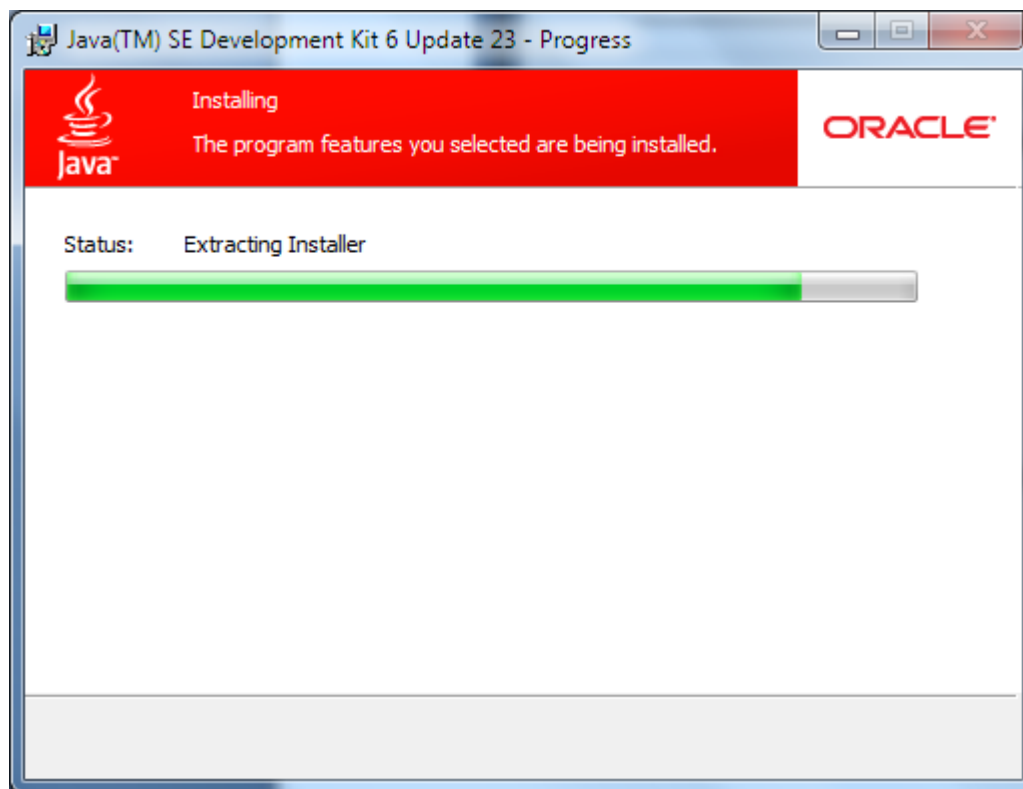


4: We require only Public JRE rest of other like Development Tools, Demo and Samples and Source Code “Do no install this feature now”.

5: Click Next



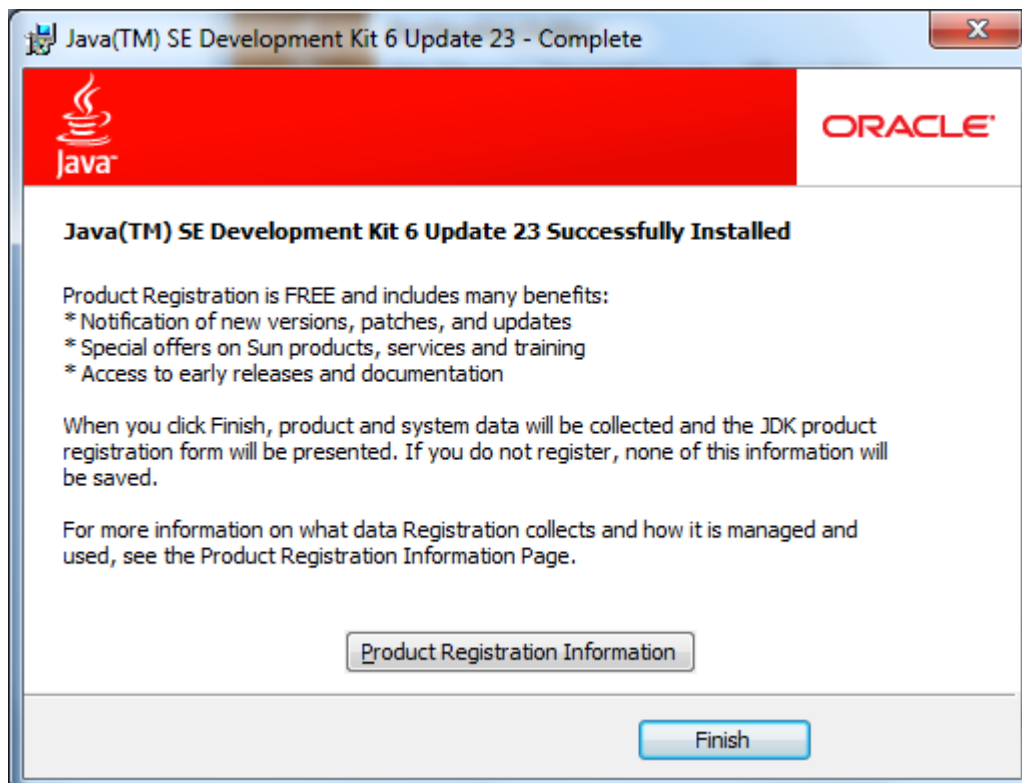
6. Installing wizard will appear.



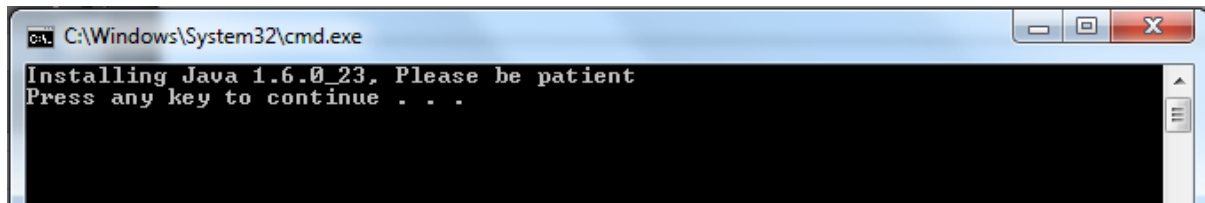
7: Setup-progress wizard would show up.



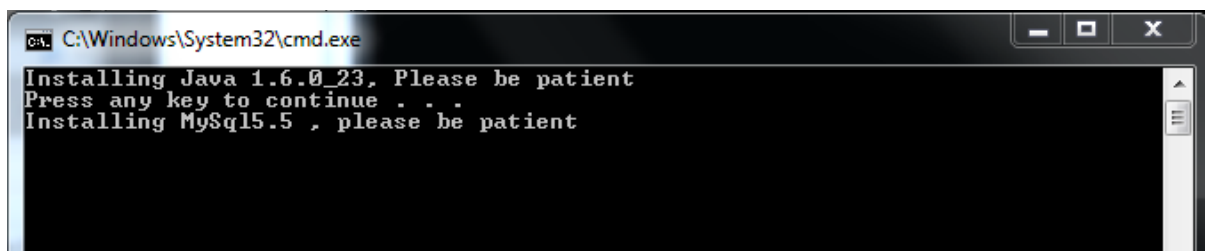
8: Click Finish.



Step5) After the JDK installation complete press any key to continue, as show below.



Step6) Then it will check the MySQL 5.5 installed or not. You will get the below screen.



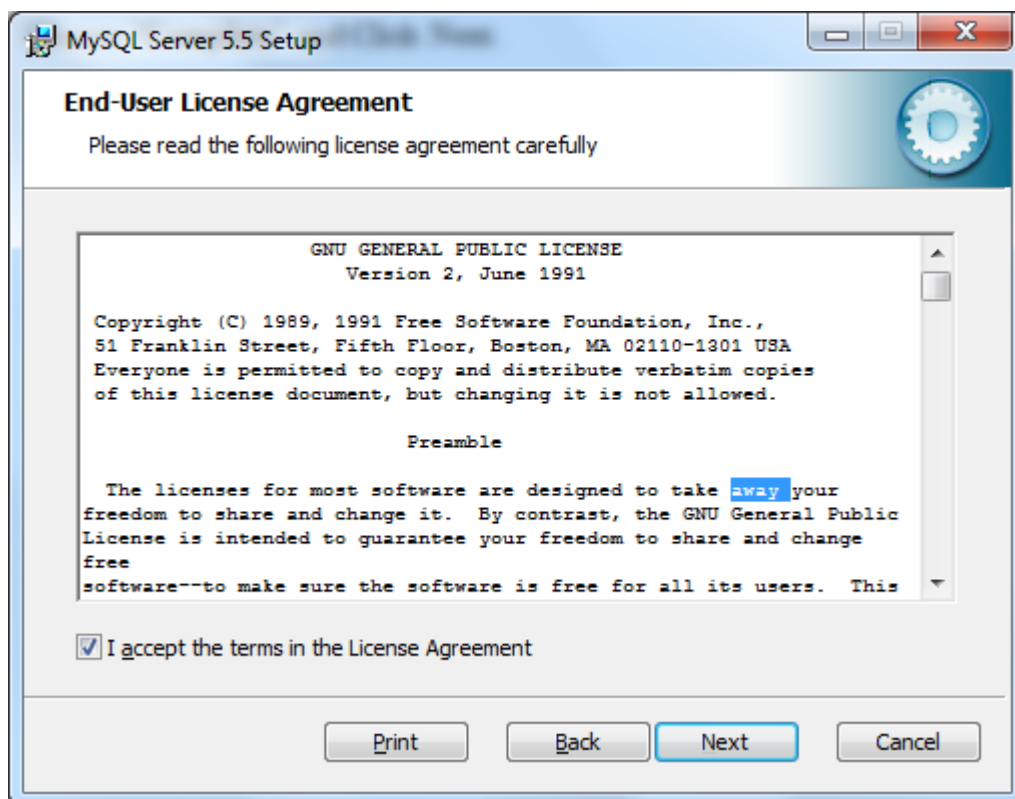
Step7) If MySQL is already installed; check that the version should be equal or higher than 5.5.20. To check the version on command prompt you can type the command **mysql -V**. If the version of MySQL is lower than 5.5.20, you need to upgrade, the best way to do it is as follows, but note that this will delete all the MySQL databases from the local machine, for your reference take backup of the databases.

1. Uninstall MySQL from Control Panel->Programs
2. Delete directory **MySQL** from directory **C:\Program Files** (or whatever directory in which MySQL is installed)
3. Delete directory **MySQL** from directory **C:\ProgramData**
4. Restart the computer.
5. Now re-run this (ServerCCTNS application installation) utility and install MySQL at this step and go further.

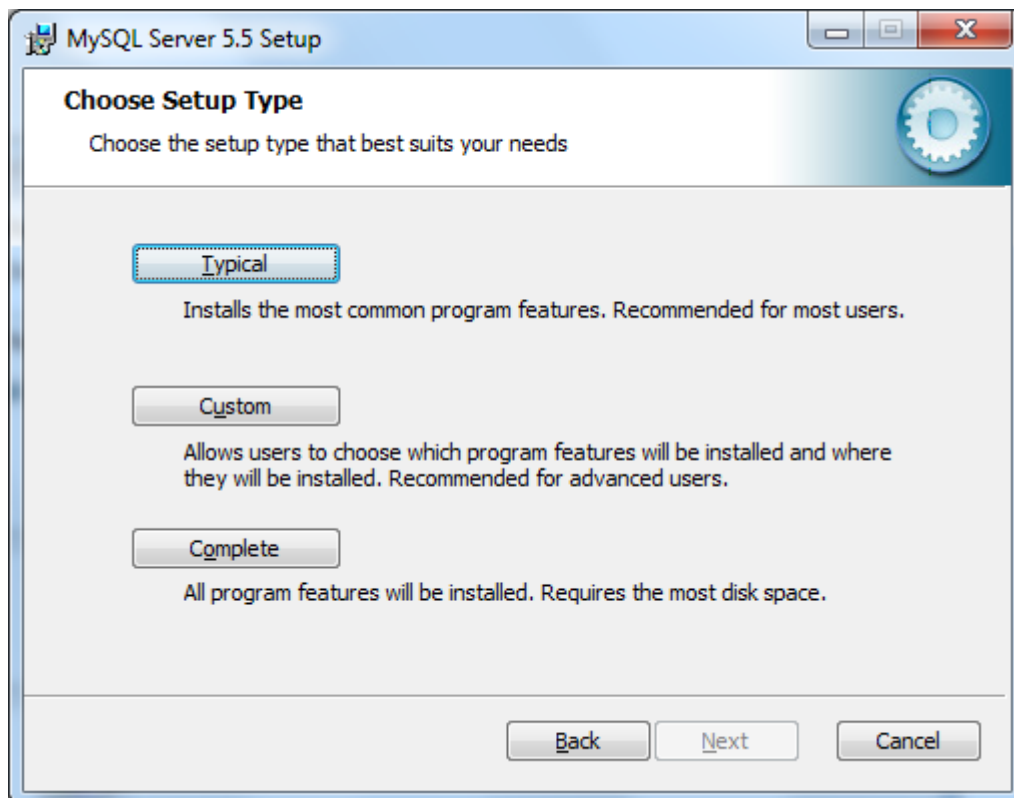
If MySQL 5.5 is not installed, follow the below steps to install the MySQL 5.5. Follow the below mentioned steps to install MySQL Server.

You will get the below screen

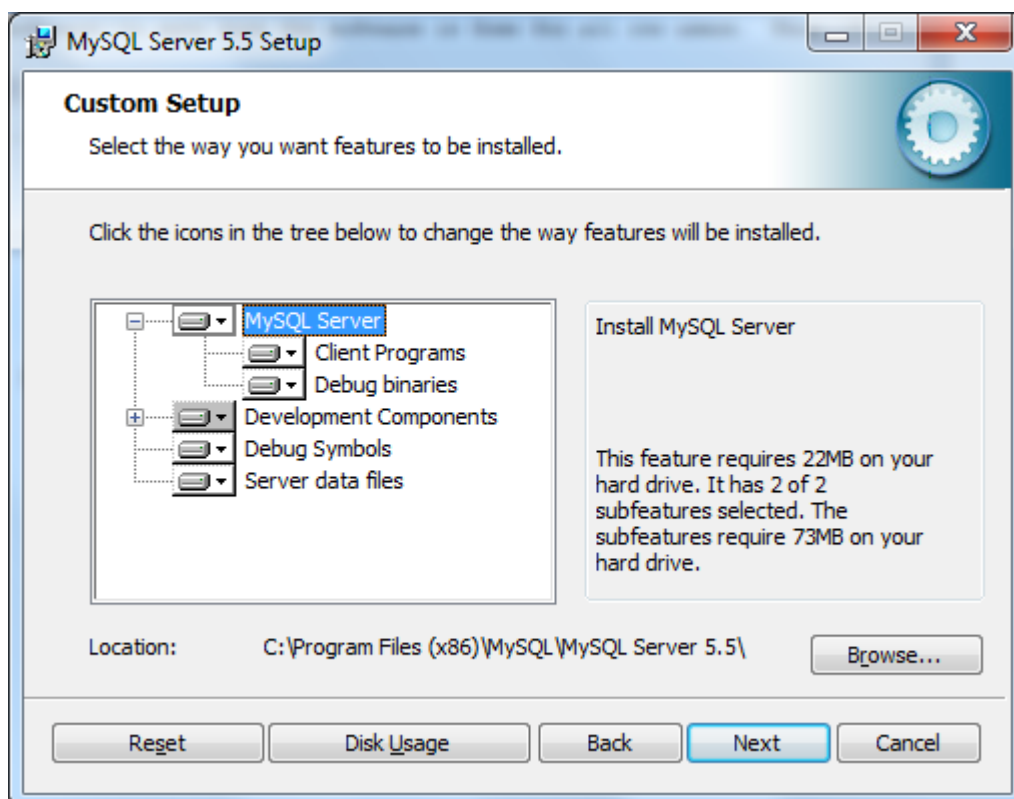
- 1) Click Next



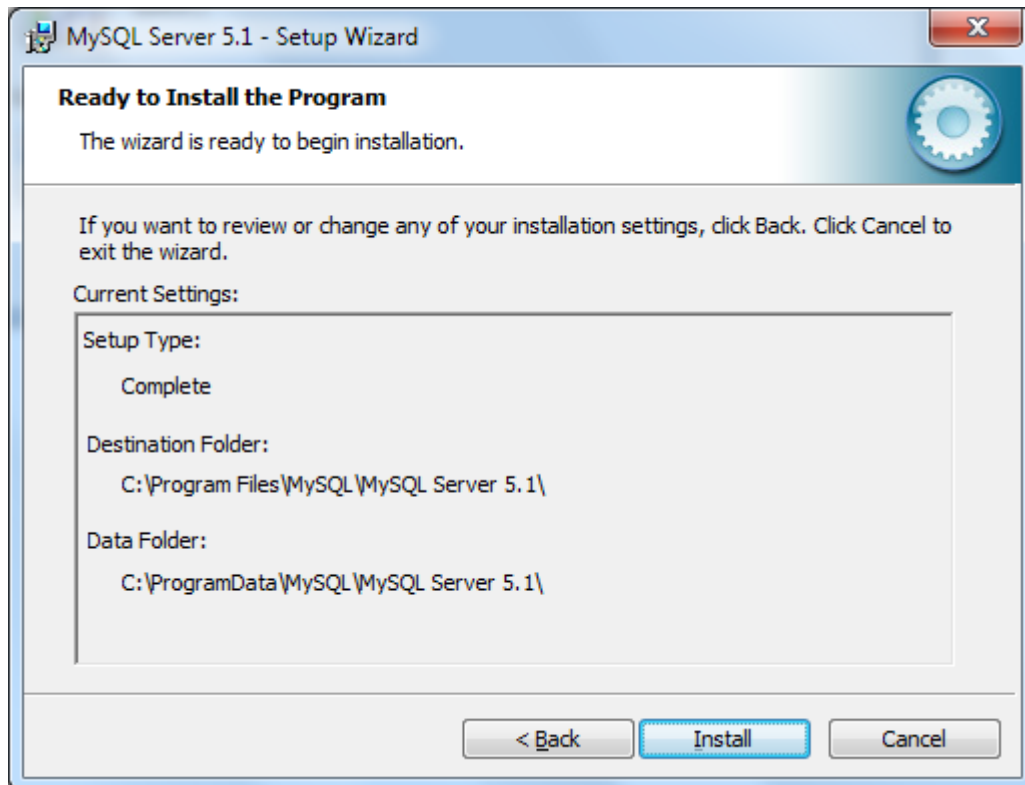
- 2) Choose "Typical" and Click Next.



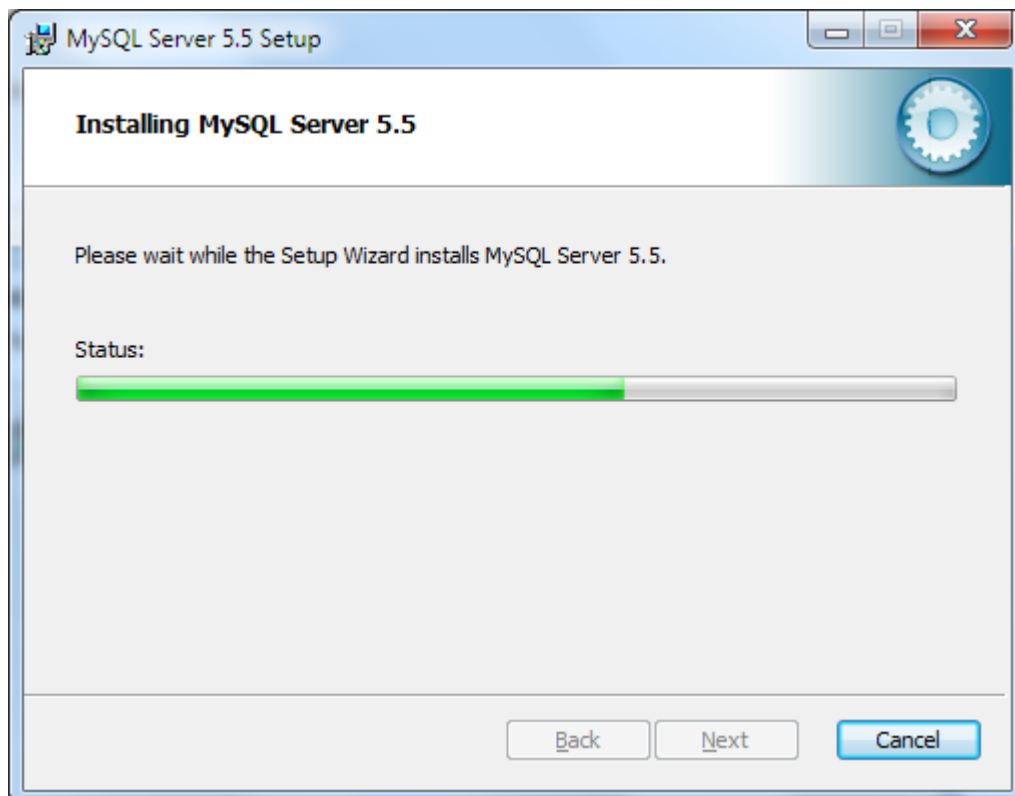
- 3) Once you press the next you will get the below screen, click Next.



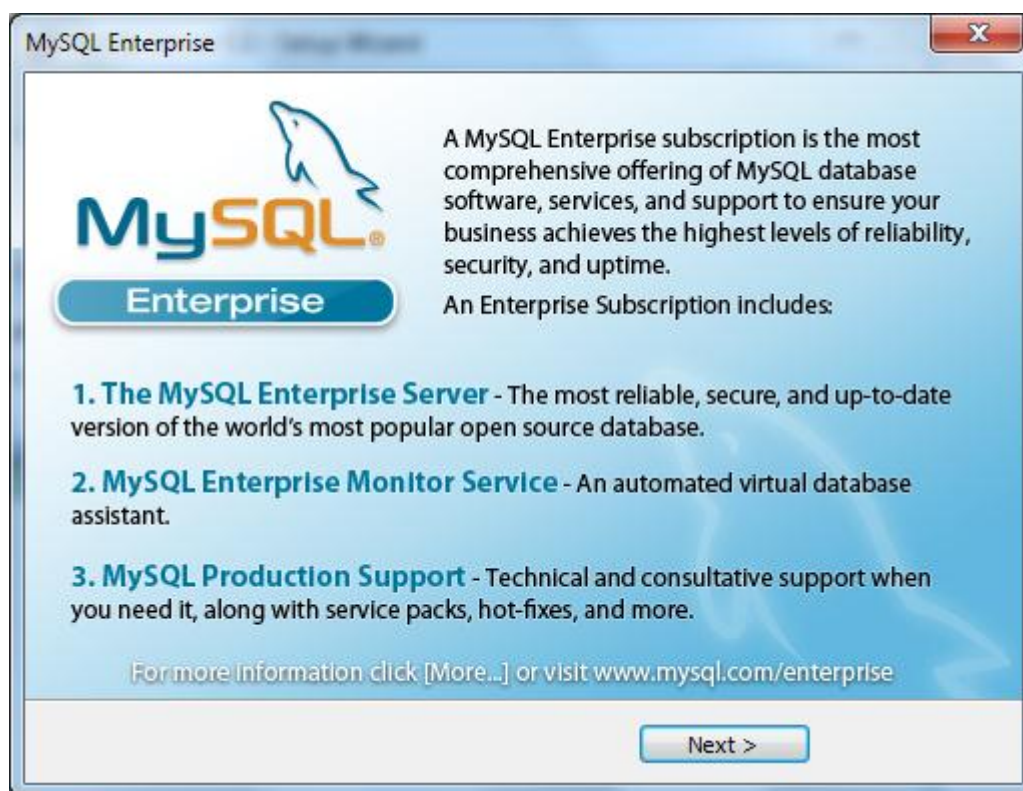
- 4) Click the "Install"



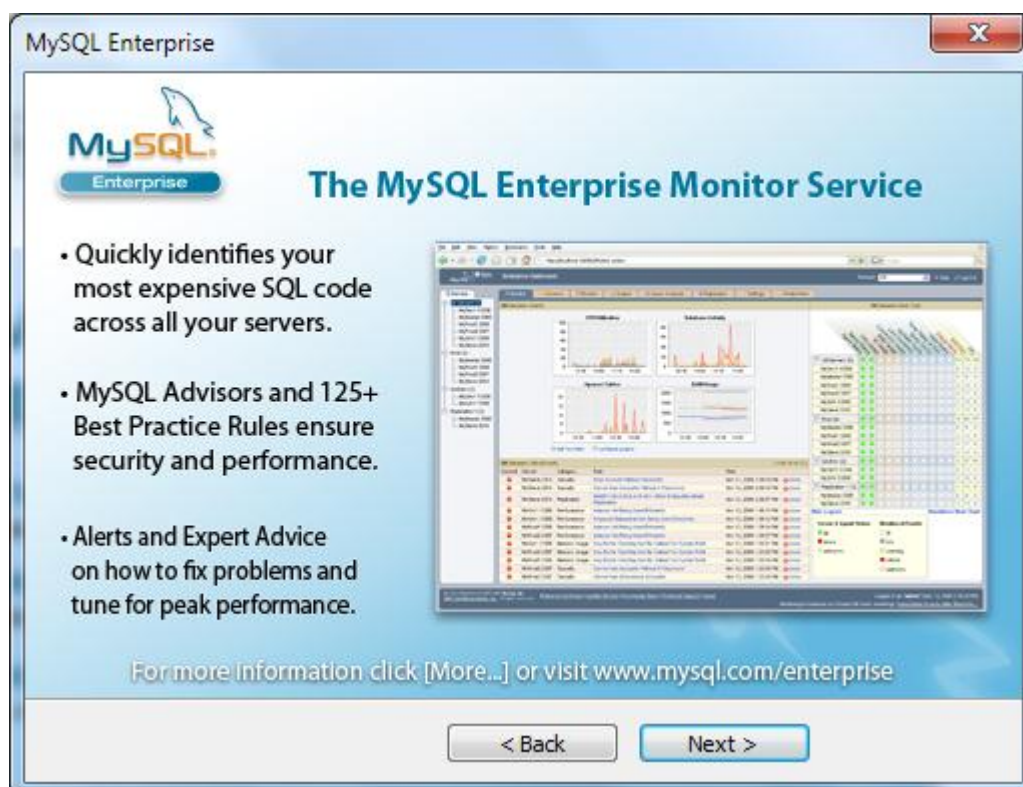
The below screen would be displayed



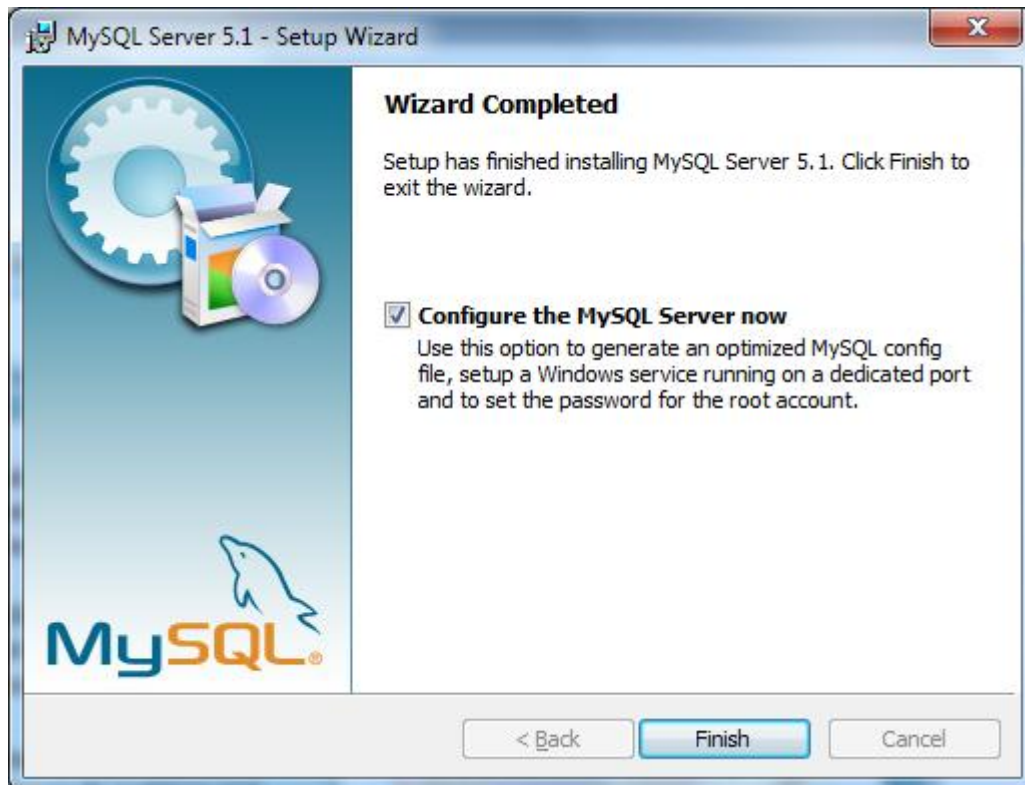
5) Click on Next button



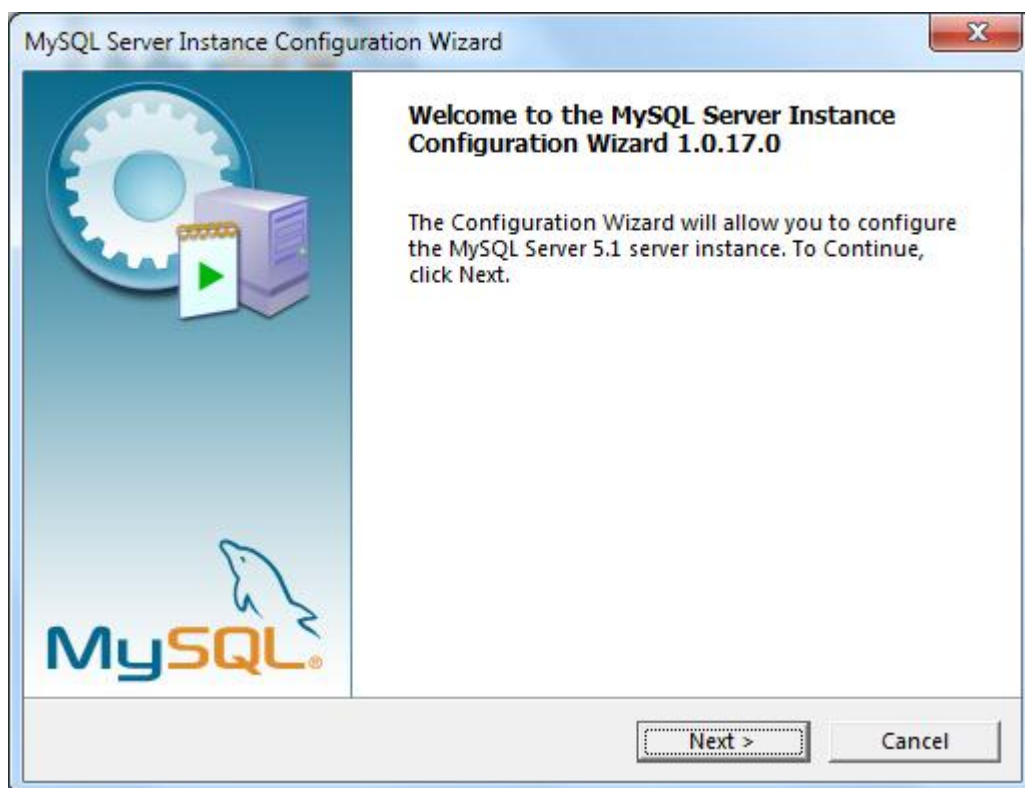
6) Click on Next



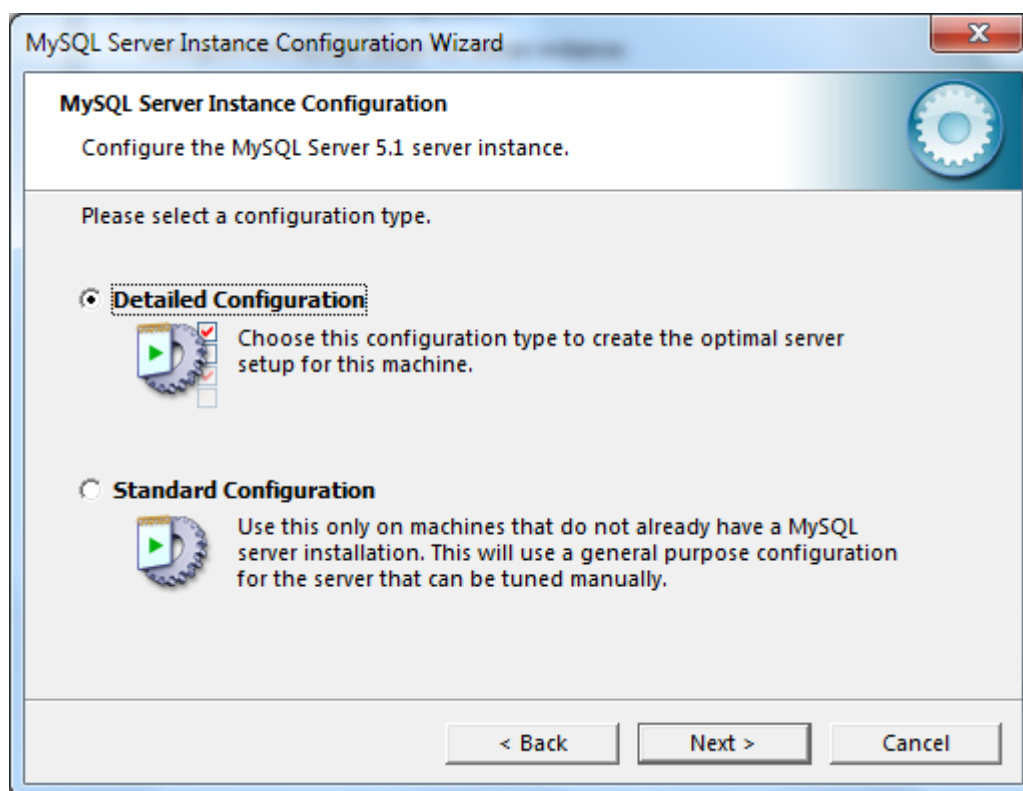
7) Check the "Configure the MySQL Server now" Then Click Finish,



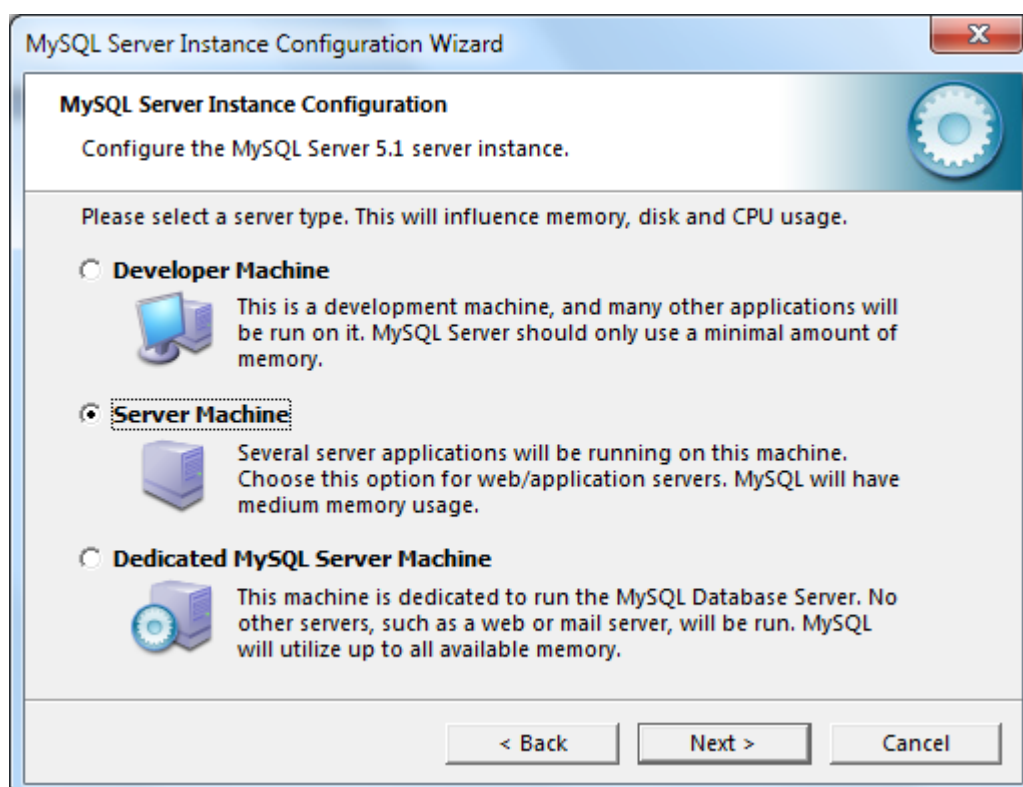
- 8) Once installation is finished, we will get To Configure MySQL server instance wizard then Click Next



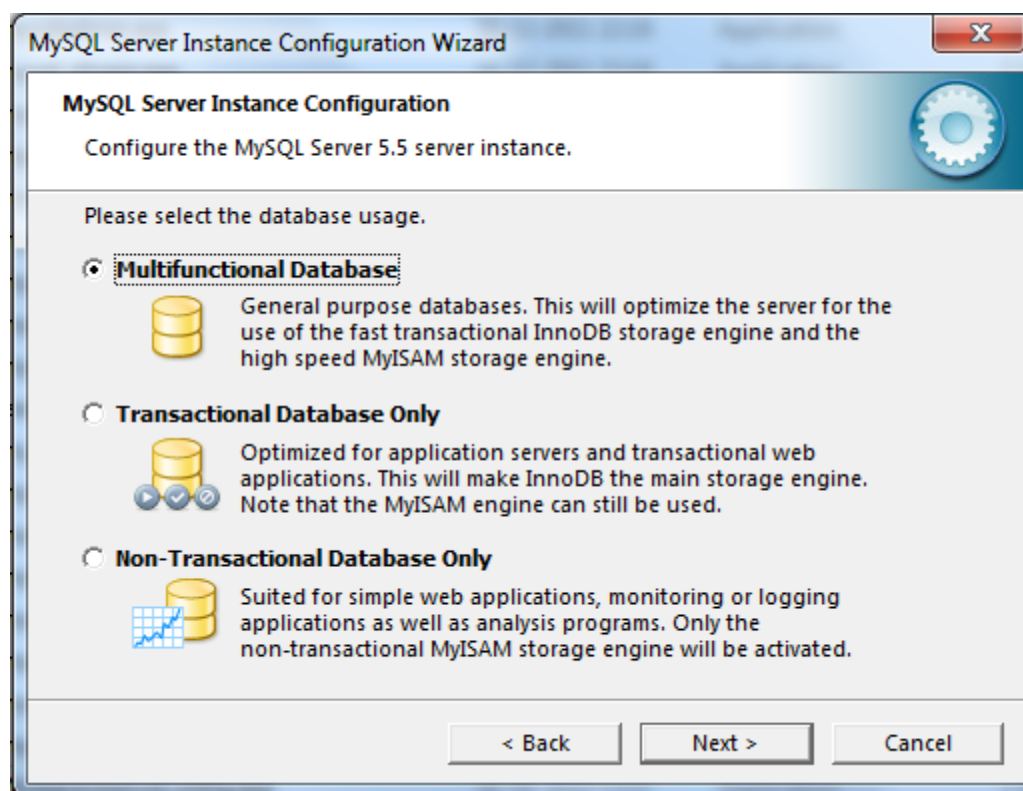
- 9) Choose "Detailed Configuration" and Click Next



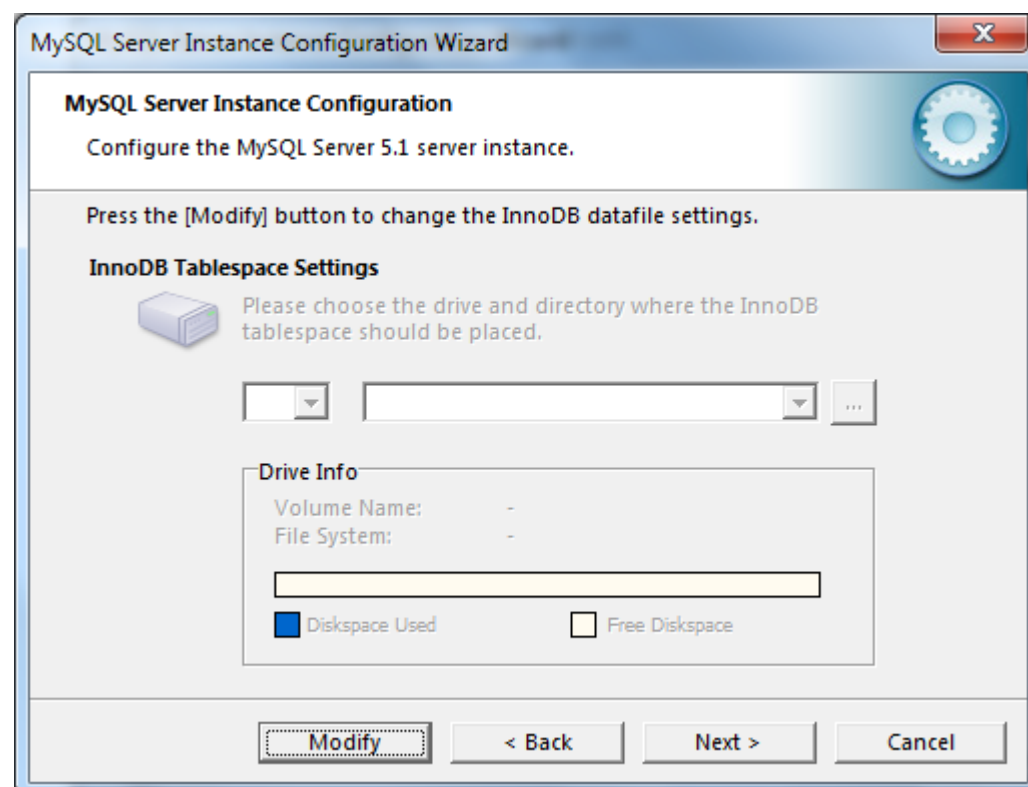
10) Choose "Server Machine" and Click Next



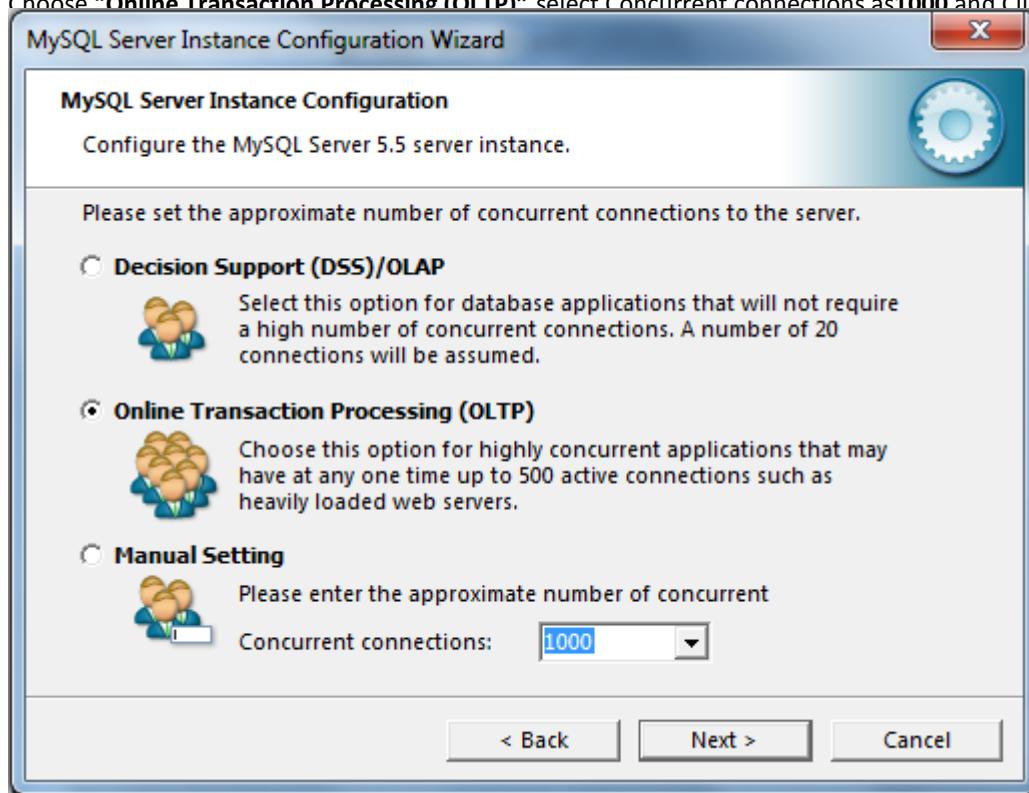
11) Choose "Multifunctional Database" and Click Next



12) Click Next

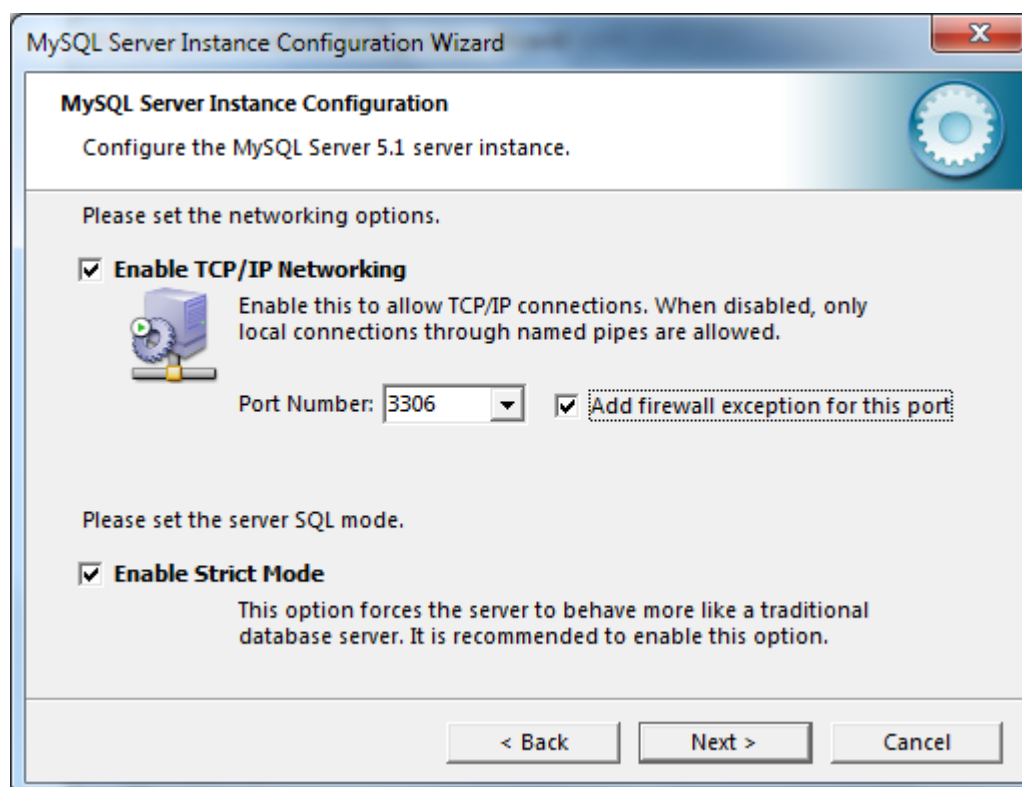


- 13) Choose "**Online Transaction Processing (OLTP)**" select Concurrent connections as **1000** and Click Next

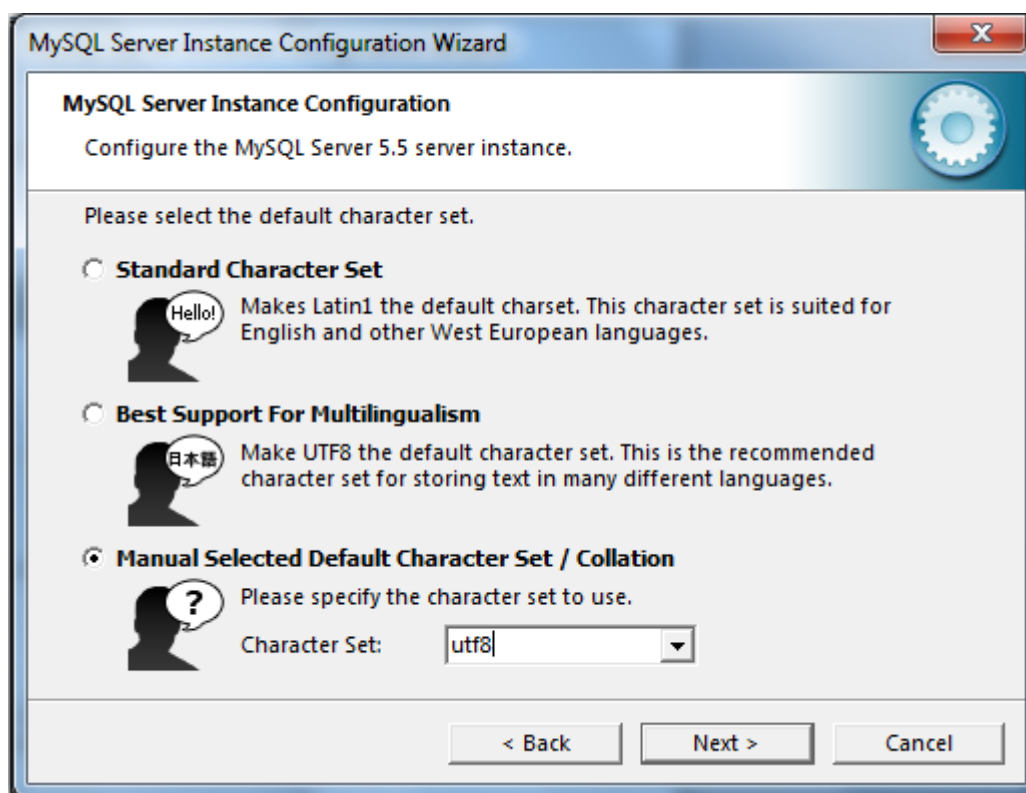


- 14) Leave the defaults (both check boxes enabled, port: 3306)

Add firewall exception for this port need to be checked. This is required to connect to the database server from a remote location.



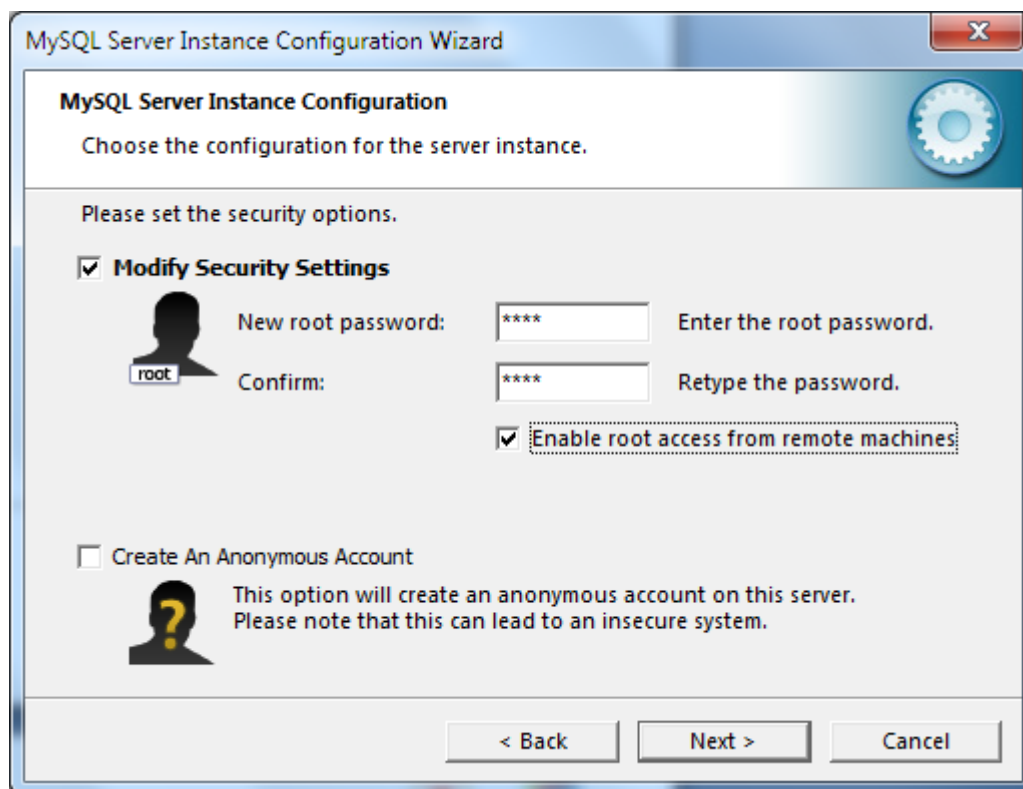
- 15) Choose "**Manual Selected Default Character Set/Collation**", select "**utf8**" and Click Next



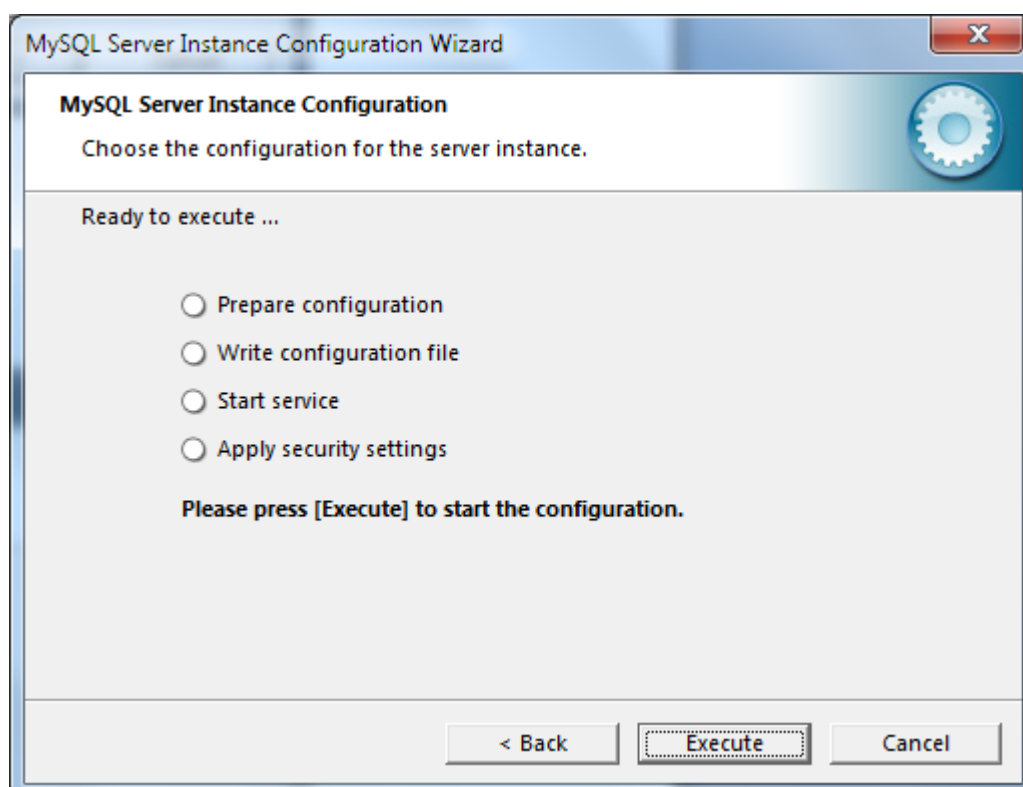
16) Check the "Include Bin Directory in Windows PATH" checkbox and click "Next"



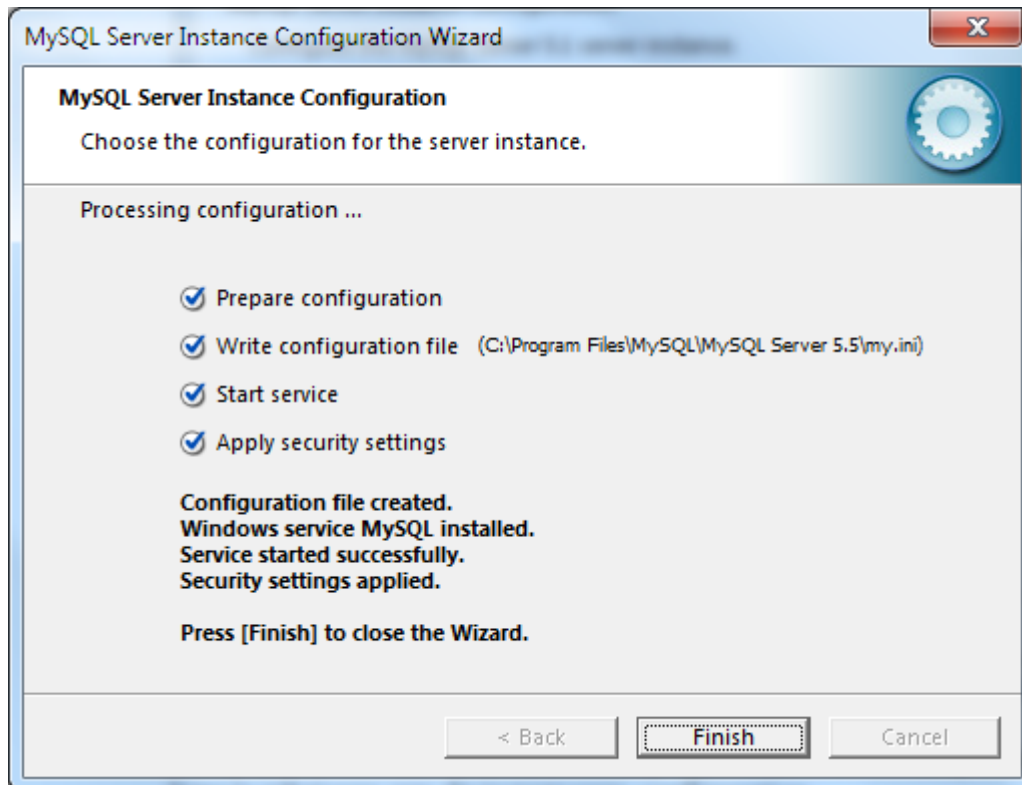
17) Enter the desired root password and click "Next"



18) Finally, Click Execute to finish the wizard.

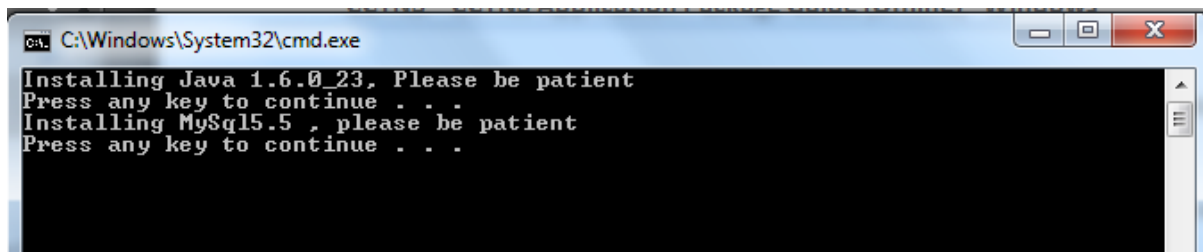


19) Click Finish to close the wizard.



After the service has been successfully started and the security settings successfully applied, here is what you can do to test your configuration.

Step8) once the Mysql5.5 installation is completed. It will ask you to press any key to continue. As shown below.



Press any key to continue

Step9) Once you finish the JDK 1.6 and MySQL 5.5 installation is completed You will get the below screen to get the java version what you have installed on your system, press enter key as show below.


```

C:\Windows\System32\cmd.exe

Installing Java 1.6.0_23, Please be patient
Press any key to continue . . .
Installing MySQL5.5 , please be patient
Press any key to continue . . .
Display java version
java version "1.6.0_23"
Java(TM) SE Runtime Environment (build 1.6.0_23-b05)
Java HotSpot(TM) Client VM (build 19.0-b09, mixed mode, sharing)
C:\Program Files\PC Connectivity Solution\;C:\Windows\system32;C:\Windows;C:\Win
dows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;D:\Program Files\
MySQL\MySQL Server 5.5\bin;C:\Program Files\MySQL\MySQL Server 5.5\bin;C:\Progra
m Files\Java\jdk1.6.0_23\bin;D:\Program Files\TortoiseSUN\bin;C:\Users\vi830748\
AppData\Local\Temp\cctnsSoftware\Ant\bin;
Press any key to continue . . .

```

Step10) After this Offline application is copied to local system the progress is show in screen below

```

C:\Windows\System32\cmd.exe

Installing Java 1.6.0_23, Please be patient
Press any key to continue . . .
Installing MySQL5.5 , please be patient
Press any key to continue . . .
Display java version
java version "1.6.0_23"
Java(TM) SE Runtime Environment (build 1.6.0_23-b05)
Java HotSpot(TM) Client VM (build 19.0-b09, mixed mode, sharing)
C:\Program Files\PC Connectivity Solution\;C:\Windows\system32;C:\Windows;C:\Win
dows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;D:\Program Files\
MySQL\MySQL Server 5.5\bin;C:\Program Files\MySQL\MySQL Server 5.5\bin;C:\Progra
m Files\Java\jdk1.6.0_23\bin;D:\Program Files\TortoiseSUN\bin;C:\Users\vi830748\
AppData\Local\Temp\cctnsSoftware\Ant\bin;
Press any key to continue . . .

.....
Installing CCTNS Application <Complete-Server>
.....
Unable to locate tools.jar. Expected to find it in C:\Program Files\Java\jre6\li
b\tools.jar
Buildfile: D:\Offline_releases\Offline_2.4.8_31-10-2013\Application\Offline_Appl
ication_Windows\32_Bit_mod\32_Bit\Complete_InstallationBuild_32Bit\ServerCCTNSAp
plication3.0_complete\build.xml
[echo] Installing CCTNS Application <Complete-Server>

dircheck:

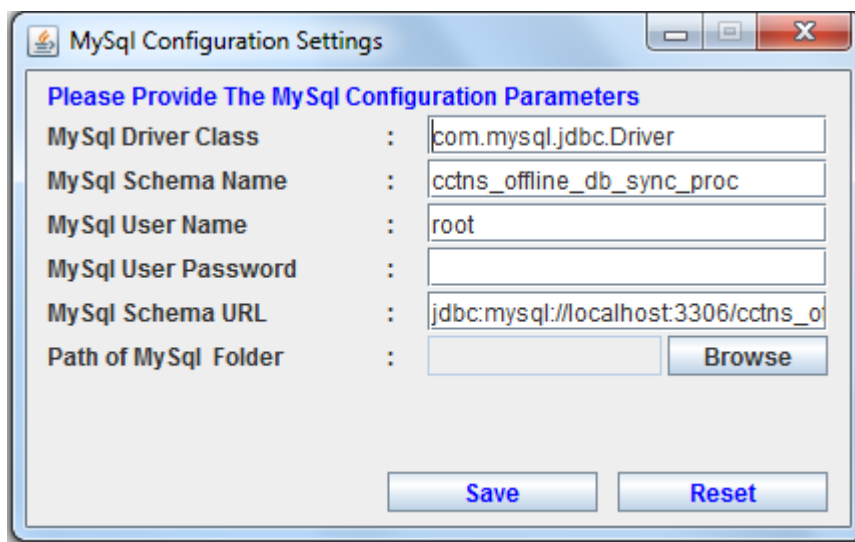
reCreateAppRootDirectory:
[echo] C:\CCTNSApplication exists
[delete] Deleting directory C:\CCTNSApplication
[mkdir] Created dir: C:\CCTNSApplication

createAppRootDirectory:

copyApplication:
[echo] Copying CCTNS Application
[copy] Copying 579 files to C:\CCTNSApplication

```

After this the utility will ask the MySQL credential for executing database scriptAs shown below screen.



Enter the Application Configuration Settings (recommended values are pre-filled for ease of user) As shown below:

Significance of the parameters:

MySQL Driver class: This is the driver name to be used for connecting database.

`com.mysql.jdbc.Driver`

MySQL Schema Name: Database name

`cctns_offline_db_sync_proc`

MySQL User Name: Use **root** user, since we need to create a new database in MySQL.

MySQL User Password: The password for root user.

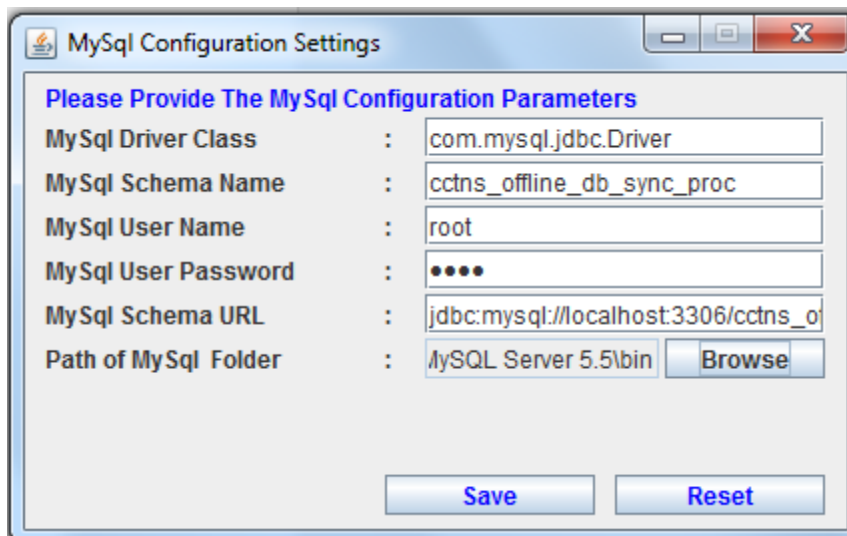
MySQL Schema URL: Local system database url.

`jdbc:mysql://localhost:3306/cctns_offline_db_sync_proc`

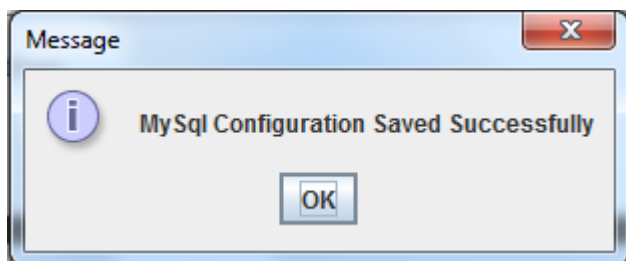
Path of MySQL Folder This is the path of MySQL directory upto bin.

`C:\Program Files\MySQL\MySQL Server 5.5\bin`

After filling up all values the screen would look like



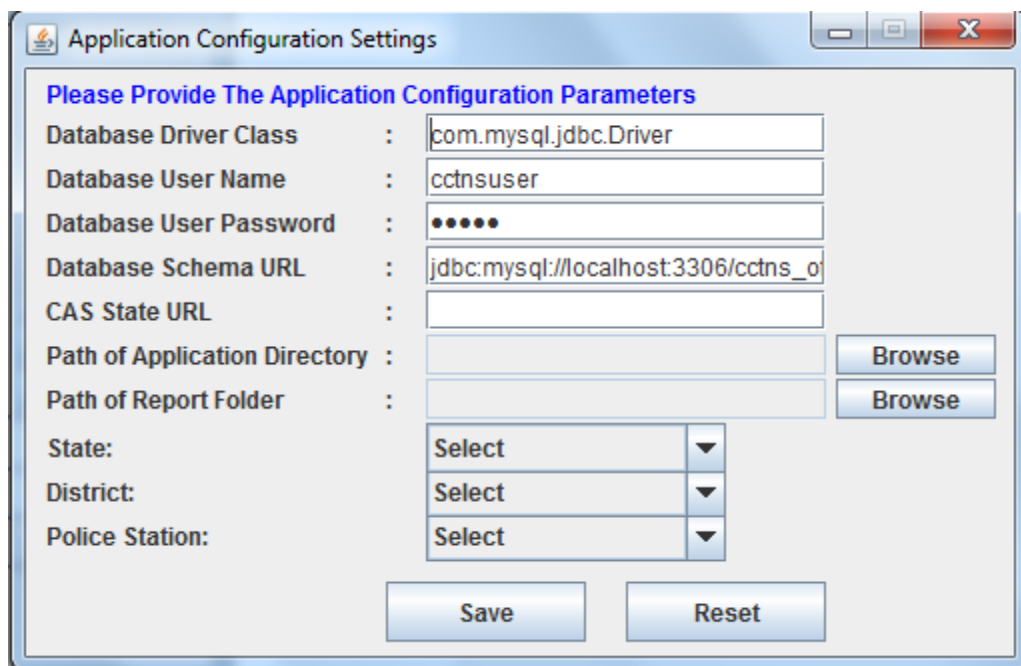
On click of save button we get the following popup.



After these installations, utility will execute the database script to install the database schema.

```
createAppRootDirectory:
copyApplication:
    [echo] Copying CCTNS Application
    [copy] Copying 579 files to C:\CCTNSApplication
MySQLUserDetails:
    [echo] MySQL User Details to Access the DB
    [echo] MySQL Path=C:\Program Files\MySQL\MySQL Server 5.5\bin
DBScript:
    [echo] Executing DB script
deleteTempFile:
    [delete] Deleting: C:\CCTNSApplication\database.properties
    [echo] deleteTempFile done
ApplicationDBUserDetails:
    [echo] MySQL User Details to Access the Application
-
```

Step11). Once it is finish its will provide the user with below screen.



Significance of the parameters: (recommended values are pre-filled for ease of user)

Database Driver class:	This is the driver name to be used for connecting database. <code>com.mysql.jdbc.Driver</code>
Database User Name:	The default user name is “cctnsuser”. Only this user should be used, as this user has got tailored access over database. For the security purpose the user name is encrypted. This encryption is done at the time of application configuration done by user.
Database User Password:	The password for the default user is “cctns” to access the database. For the security purpose the user name is encrypted. This encryption is done at the time of application configuration done by user.
Database Schema URL:	The standard URL of the database. If the database is installed centrally on a system and the other desktops are connecting to it, then the URL would contain the IP address of the system on which database is installed. <code>jdbc:mysql://localhost:3306/cctns_offline_db_sync_proc</code>
CAS State URL	This is the url of the the CAS state application.

<http://10.105.115.28/CCTNSWeb/Login.aspx>

Path of Application This is the path of directory where CAS offline application is stored.

[C:\CCTNSApplication\CCTNSApplication](#)

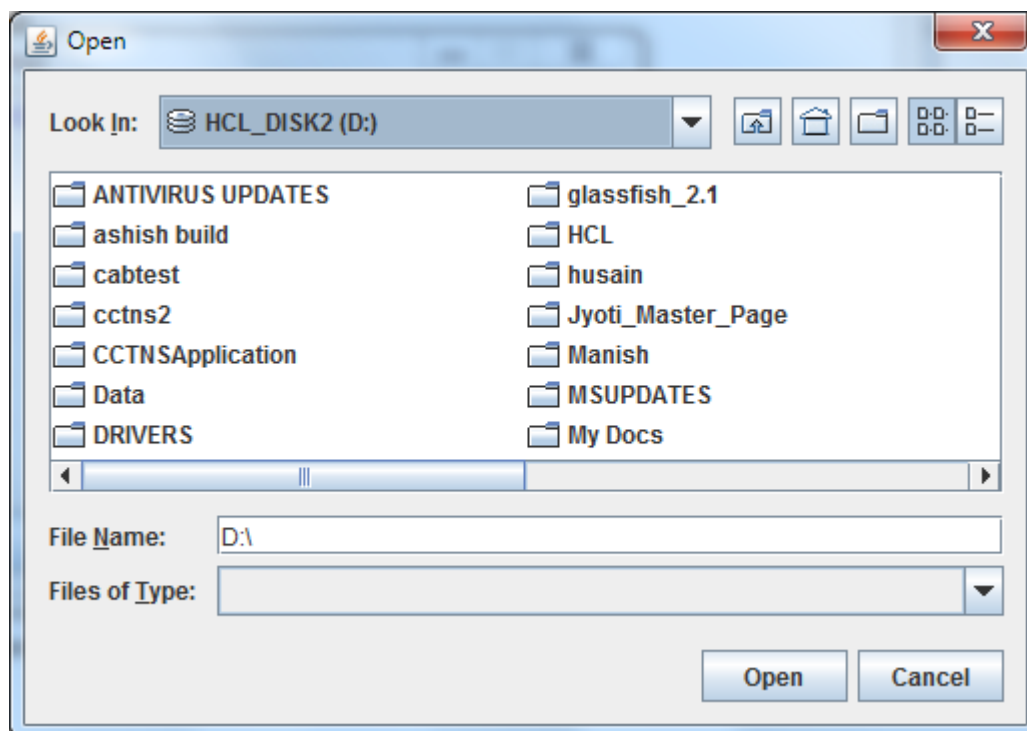
Path of Report Folder This is the path where fir pdf is created. It can be any path in file system that has write permissions.

State This is the state of Police station in which application is getting installed.

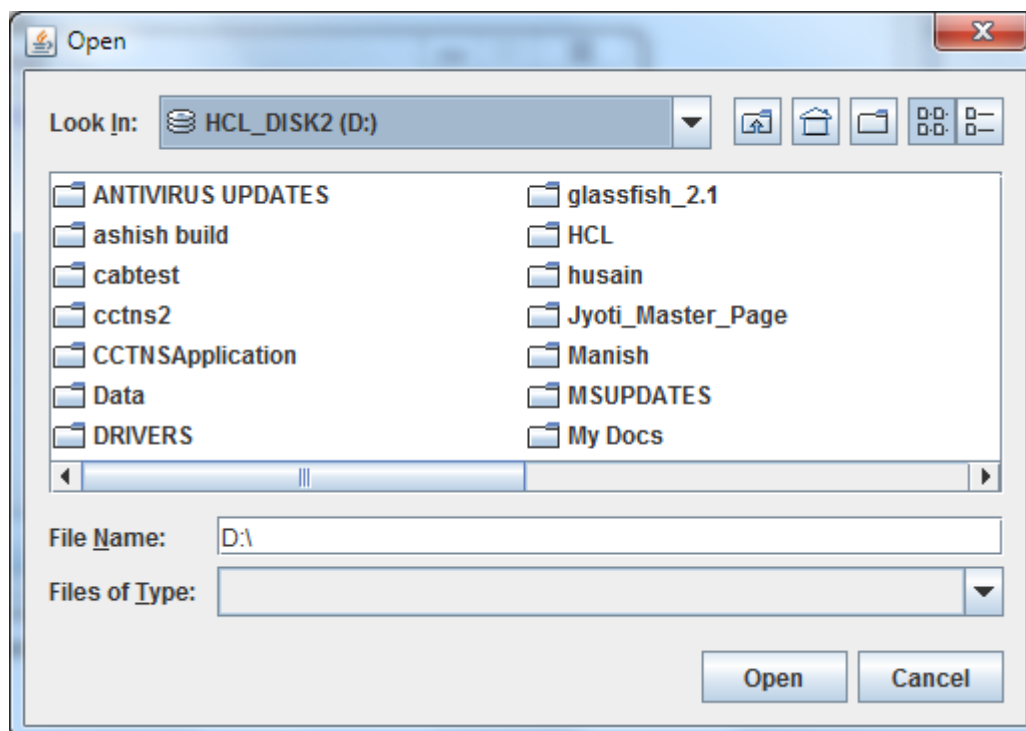
District This is district in which the police station belongs to.

Police Station This is the Police Station for the ongoing installation.

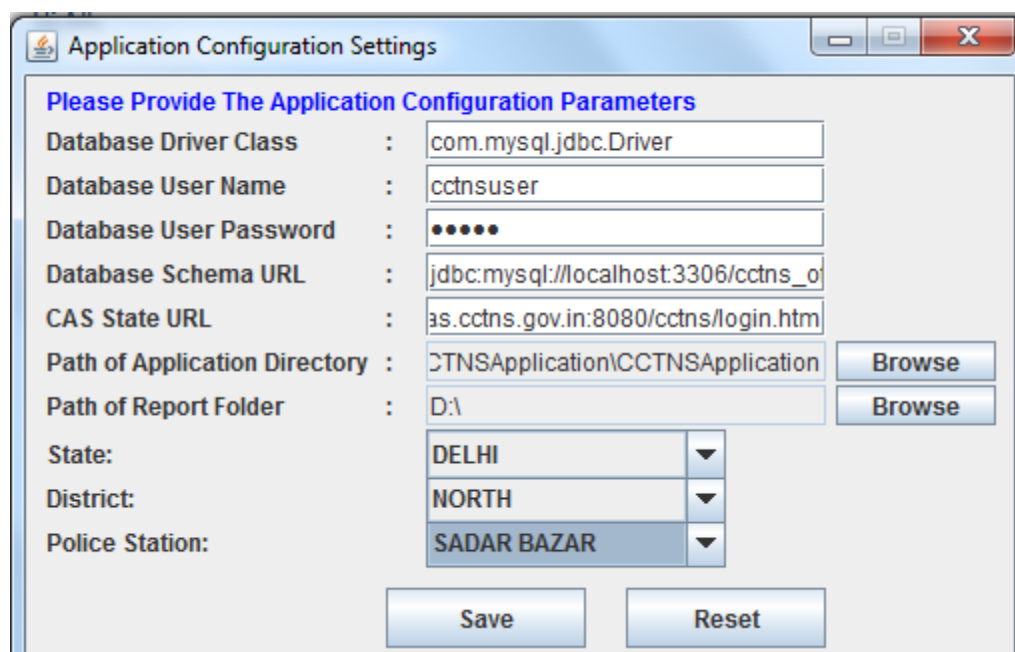
Path of FIR Report Folder: D:\



Path of Temp Folder: D:\

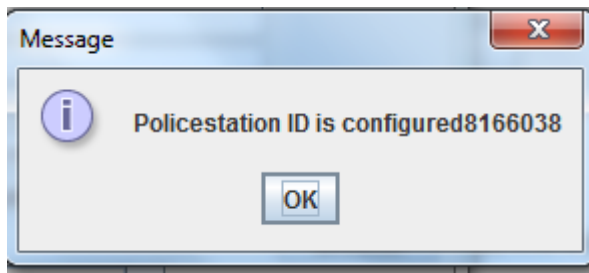


After providing proper inputs, the configuration screen will have all the parameters as shown below.

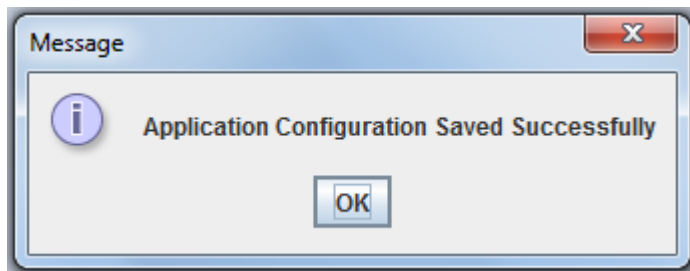


Now click on Save button.

A confirmation message would be shown showing the police station code, this is just for information.



Click on Ok



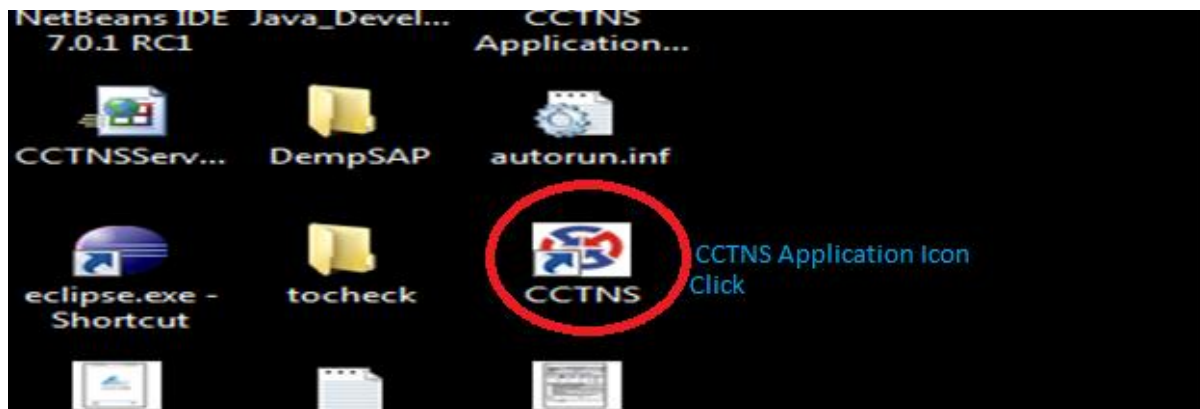
Click on OK, following screen would be shown.

```
CrateShortCut:
[echo] CCTNS Short CUT Created
[exec] Microsoft (R) Windows Script Host Version 5.8
[exec] Copyright (C) Microsoft Corporation. All rights reserved.
[exec]

pauseAfterDone:
[echo] Done, please look at the output above, if any error please follow the
e procedure again.
[input] Press return(enter) key to continue...
_
```

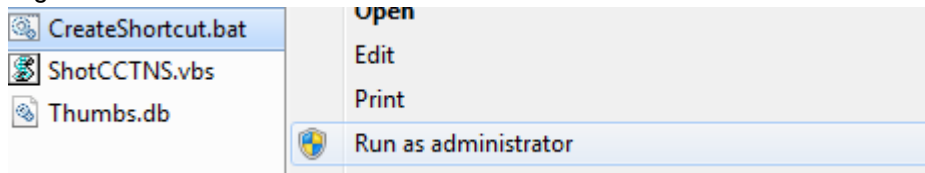
At the last step you would be asked to review all the output shown, if no errors are shown, you have successfully installed. If you find any error repeat the installation.

Step12) Finally as the last step an icon for CCTNS application will be generated on your desktop..

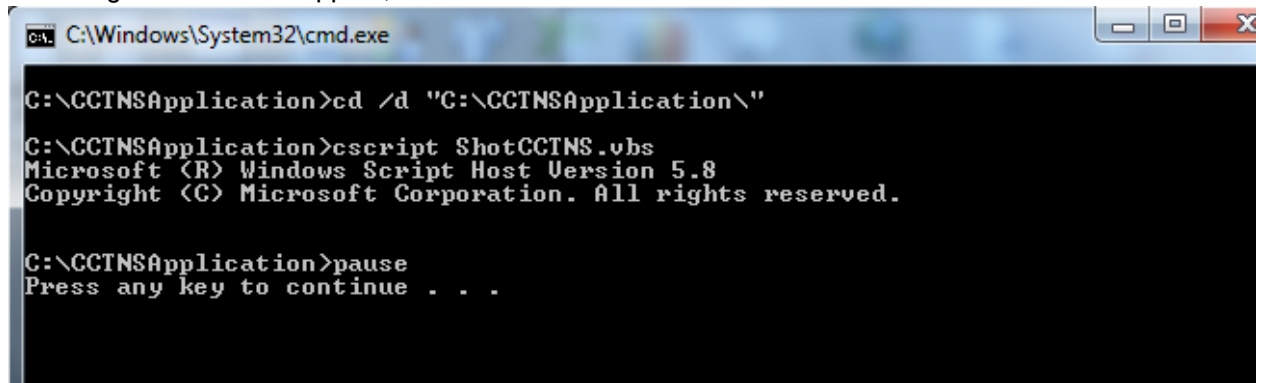


If in case the icon is not created on the desktop, follow the following steps.

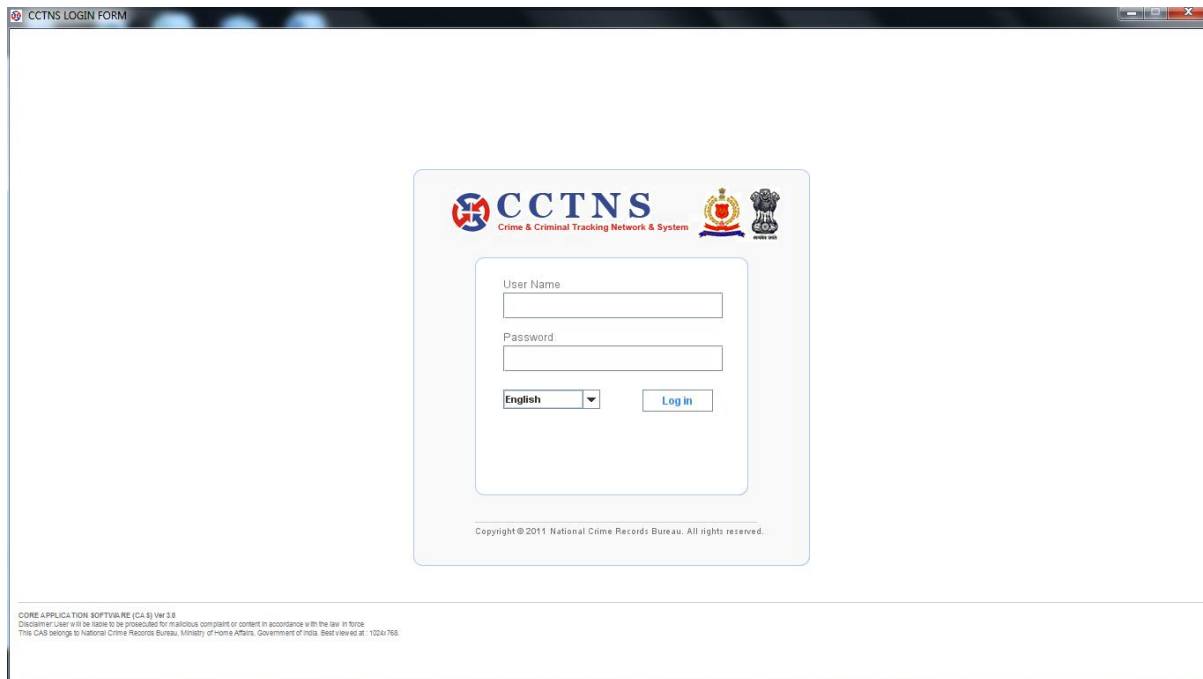
- Go to location **C:\CCTNSApplication**
- Right click on **CreateShortcut.bat** and click **Run as administrator**



- Following window would appear, and shortcut would be created.



Step13). On clicking the CCTNS Icon you will get the CCTNS Application below screen.



Step14). User can log on to the system using the user credentials synched from state DB(as mentioned in pre-requisites in technical manual).