## Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering Academic Year: 2023-24

Experiment No.3

To install and configure Cassandra to execute NOSQL commands

Date of Performance: 31/7/202

**Date of Submission:**[7/8/202]

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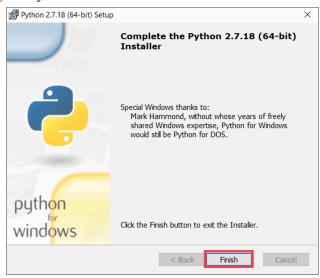
**AIM:** To install and configure MongoDB/ Cassandra/ HBase/ Hypertable and to execute NoSQL commands.

#### THEORY:

1. Visit the official Oracle download page and download the Oracle JDK 8 software package.



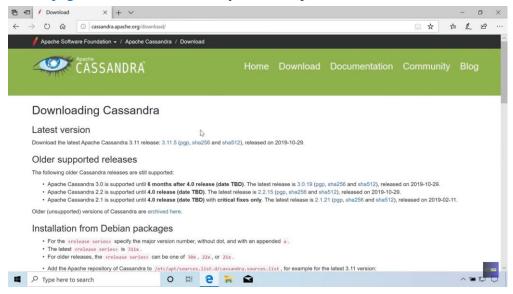
- 2. Configure Environment Variables for Java 8. It is vital to configure the environment variables in Windows and define the correct path to the Java 8 installation folder.
  - -Enter JAVA\_HOME for the new variable name. Select the Variable value field and then the Browse Directory option to navigate up to the jdk folder.
- 3. Install and Configure Python 2.7 on Windows.



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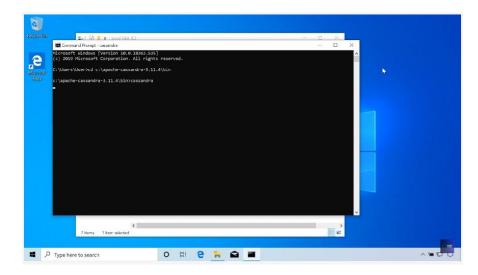
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- 4. Configure Environment Variables for Python 2.7. Add the Python 2.7 path to the Path system variable.
- 5. Download and Set Up Apache Cassandra, Visit the official Apache Cassandra Download page and select the version you would prefer to download.



- 6. Unzip the compressed tar.gz folder using a compression tool like winzip/7zip.
- 7. Set up the environment variables for Cassandra to enable the database to interact with other applications and operate on Windows.
- 8. Type CASSANDRA\_HOME for Variable name, then for the Variable value column select the location of the unzipped Apache Cassandra folder.
- 9. Start Cassandra from Windows CMD.

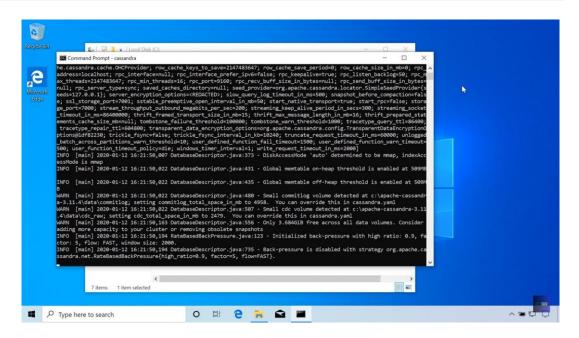
  Navigate to the Cassandra bin folder. Start the Windows Command Prompt directly from within the bin folder by typing *cmd* in the address bar and pressing Enter.
- **10.** Type the following command to start the Cassandra server: **cassandra**



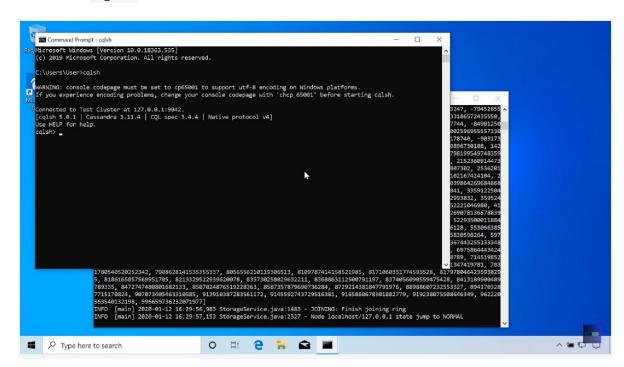


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11. While the initial command prompt is still running open a new command line prompt from the same bin folder. Enter the following command to access the Cassandra cqlsh bash shell: cqlsh



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#### **CONCLUSION:**

In conclusion, this practical has provided a foundational understanding of how to install and configure Cassandra. It's important to remember that Cassandra is a powerful and versatile database system, suitable for a wide range of applications. Large volumes of unstructured data can be an issue for traditional relational databases. This popular NoSQL database solution is going to allow you to capture and store a lot more of increasingly valuable data.