DAY-25

# JAVA

## JDBC:

JDBC => Java Data Base Connectivity

It is a JAVA API to connect and execute queries with databases and process the results.

It is a part of the JSE.

JDBC API uses JDBC drivers to connect to the database.

## JDBC ARCHITECTURE:

1. Application
2. JDBC API
3. JDBC Driver Manager
4. JDBC Drivers

JDBC consists of two-tier and three-tier processing models to access a database.

## JDBC COMPONENTS:

The 4 main JDBC components are:

1. JDBC API
2. JDBC Driver Manager
3. JDBC Test Suite
4. JDBC Drivers

## JDBC DRIVERS:

1. JDBC-ODBC Bridge Driver
2. Native-API Driver
3. Network Protocol Driver
4. Thin Driver

## JDBC CLASSES AND INTERFACES:

* Driver Manager
* Connection
* Statement
* PreparedStatement
* CallableStatement
* ResultSet
* SQLException

## STEPS TO CONNECT MYSQL DATABASE USING JDBC:

1. Load the JDBC Driver
2. Establish a Connection
3. Create a Statement
4. Execute a Query
5. Close the connection