JDBC (JAVA DATABASE CONNECTIVITY)
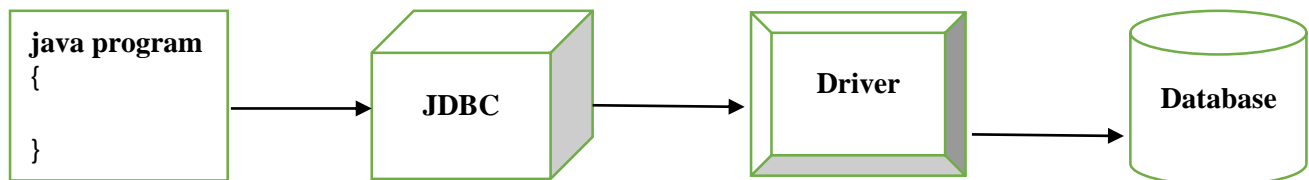
➢ JDBC is a **java API** to connect and perform operations (insert, delete, update, select, etc) with the database
➢ JDBC uses **JDBC drivers** to connect with the database

```
java program
{

}
```
JDBC → Driver → Database

➢ To connect application with MySql database, we need to follow 5 following step

  →Load the driver
  →Create connection using driver manager
  →Use connection to fire queries {statement for static queries and prepared statement for   dynamic queries (parametrized queries)}
  →Process the result
  →Close the connection

➢ Create a database in the MySql database

```
mysql> create table students(sid int primary key auto_increment, sname varchar(25) not null,sphone varchar(12),sage int);
Query OK, 0 rows affected (0.06 sec)

mysql> desc students;
+--------+-------------+------+-----+---------+----------------+
| Field  | Type        | Null | Key | Default | Extra          |
+--------+-------------+------+-----+---------+----------------+
| sid    | int         | NO   | PRI | NULL    | auto_increment |
| sname  | varchar(25) | NO   |     | NULL    |                |
| sphone | varchar(12) | YES  |     | NULL    |                |
| sage   | int         | YES  |     | NULL    |                |
+--------+-------------+------+-----+---------+----------------+
4 rows in set (0.02 sec)
```

- Create a JDBC connection using java project

```
class.forName("com.mysql.jdbc.Driver");
String user="username";
String password="password";
String url="jdbc:mysql://loaclhost:3306/database-name";
Connection con=DriverManager.getConnection(url,user,password);
```