

# ECAP615

## Programming in Java



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# Learning Outcomes

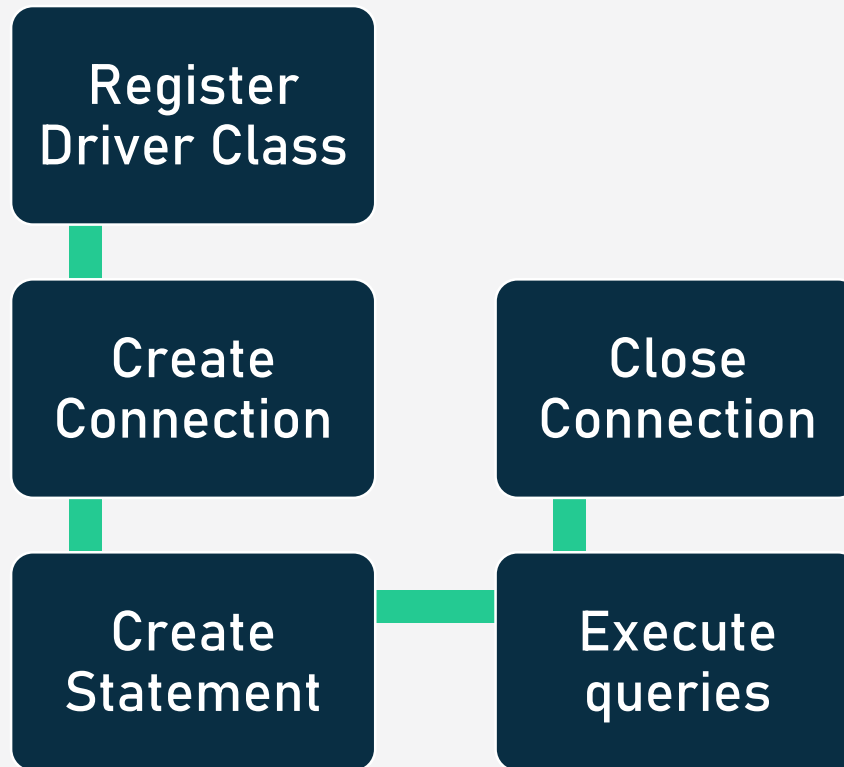


After this lecture, you will be able to

- learn the various steps required for database connectivity
- implement database connectivity

# Database Connectivity

- The following are the steps to follow for database connectivity:



# Steps for database Connectivity

- Register the driver class: The `forName()` method of `Class` class is used to register the driver class.

Example:

```
Class.forName("MySQL.jdbc.driver.MySqlDriver");
```

# Steps for database Connectivity

- Create the connection object : The getConnection() method of DriverManager class is used to establish connection with the database.

Example:

```
Connection con=DriverManager.getConnection("jdbc:
oracle:thin:@localhost:1521:xe","system","password")
;
```

# Steps for database Connectivity

- Create the Statement object: The `createStatement()` method of Connection interface is used to create statement. The object of statement is responsible to execute queries with the database.

Example :

```
Statement stmt=con.createStatement();
```

# Steps for database Connectivity

- Execute the query: The `executeQuery()` method of `Statement` interface is used to execute queries to the database. This method returns the object of `ResultSet` that can be used to get all the records of a table.

Example:

```
ResultSet rs=stmt.executeQuery("select * from Tablename");  
while(rs.next()){ System.out.println(rs.getInt(1)+" "+rs.getString(2)); }
```

# Steps for database Connectivity

- Close the connection object: By closing connection object statement and ResultSet will be closed automatically. The close() method of Connection interface is used to close the connection.

Example:

```
con.close();
```





**That's all for now...**