

ECAP615

Programming in Java



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Learning Outcomes

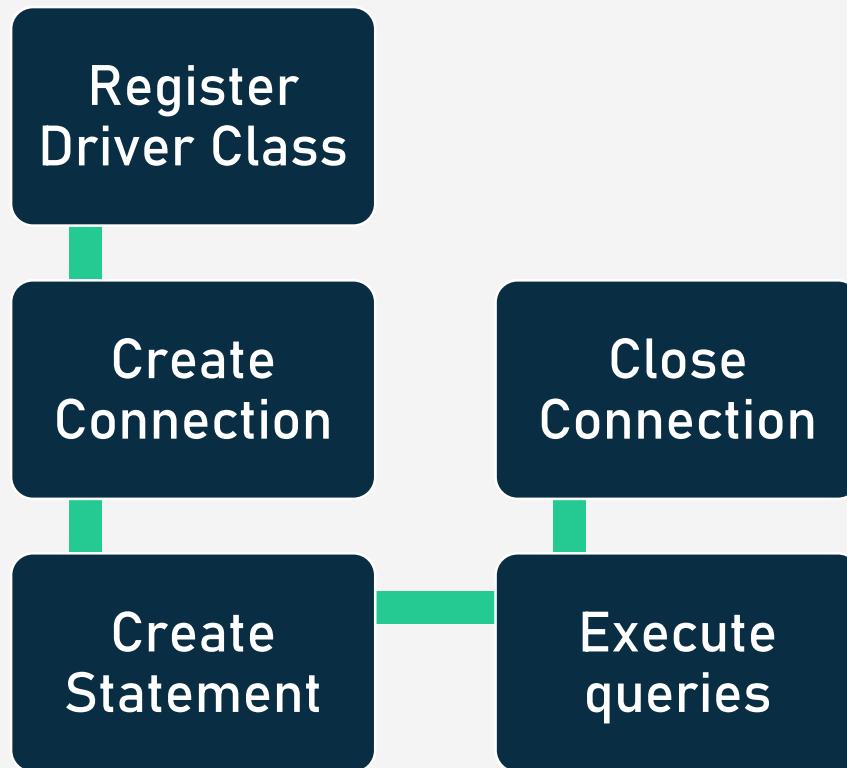


After this lecture, you will be able to

- 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...