How to create a Project in Eclipse?

File 🡪 New 🡪 Project 🡪 Java Project 🡪 Click Next

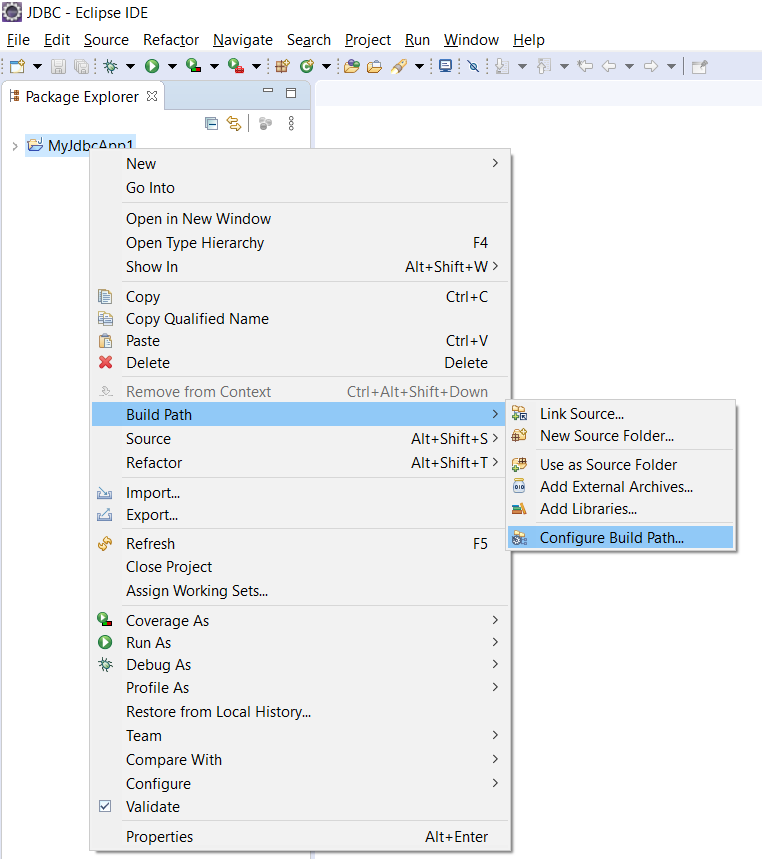
Provide the Name of the Project

Make sure that the Version of Use Execution environment JRE is Java SE -1.8

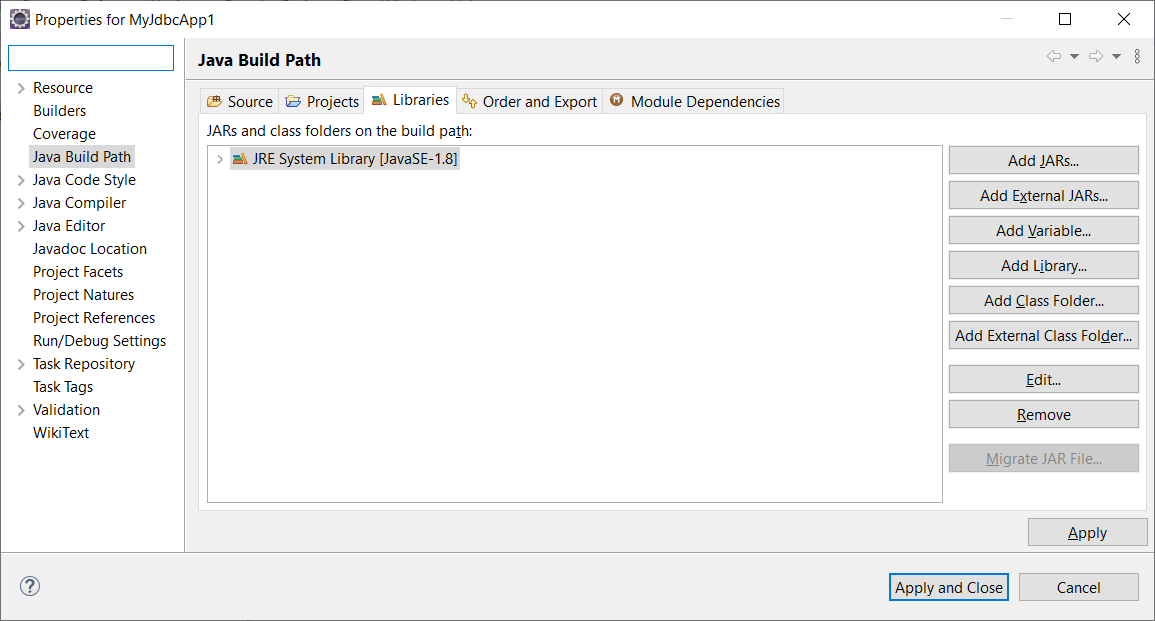
Click on Finish

How to Set the class path in Eclipse to ojdbc5.jar?

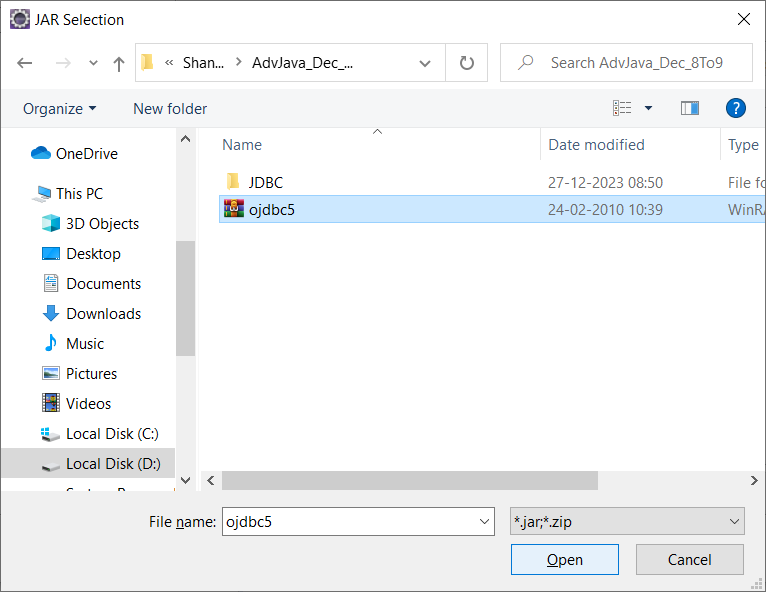
Right click on Project 🡪 Build Path 🡪 configure build path



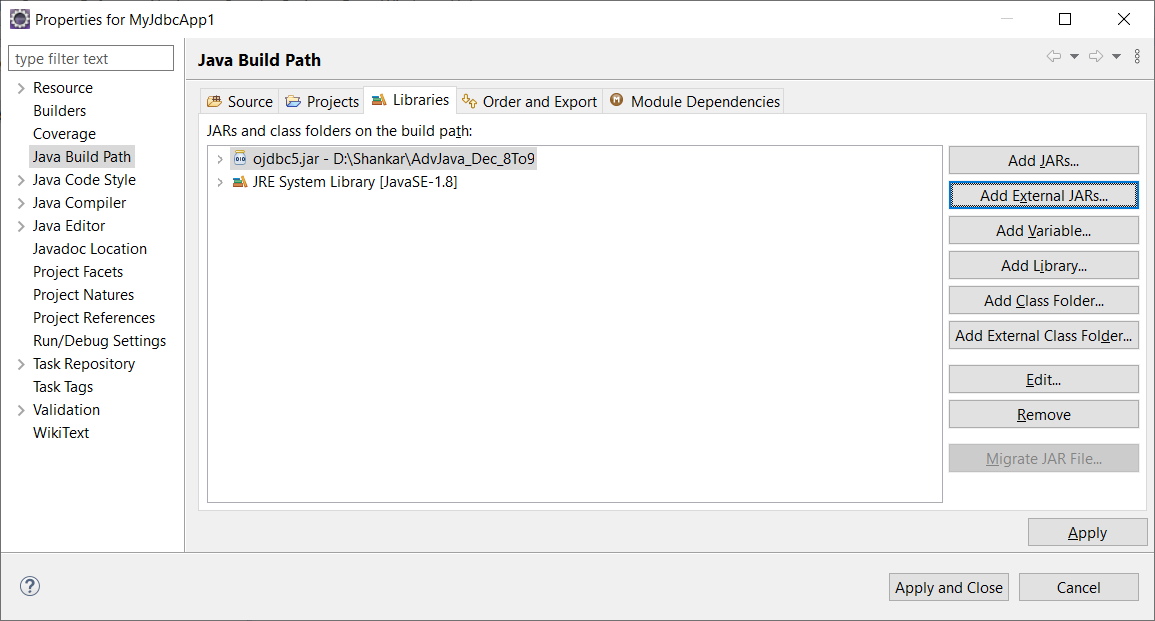
Select Libraries Tab



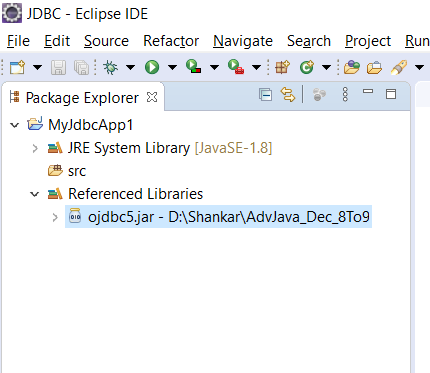
Click on Add External JARs



Provide the path where ojdbc5.jar is available and click on open

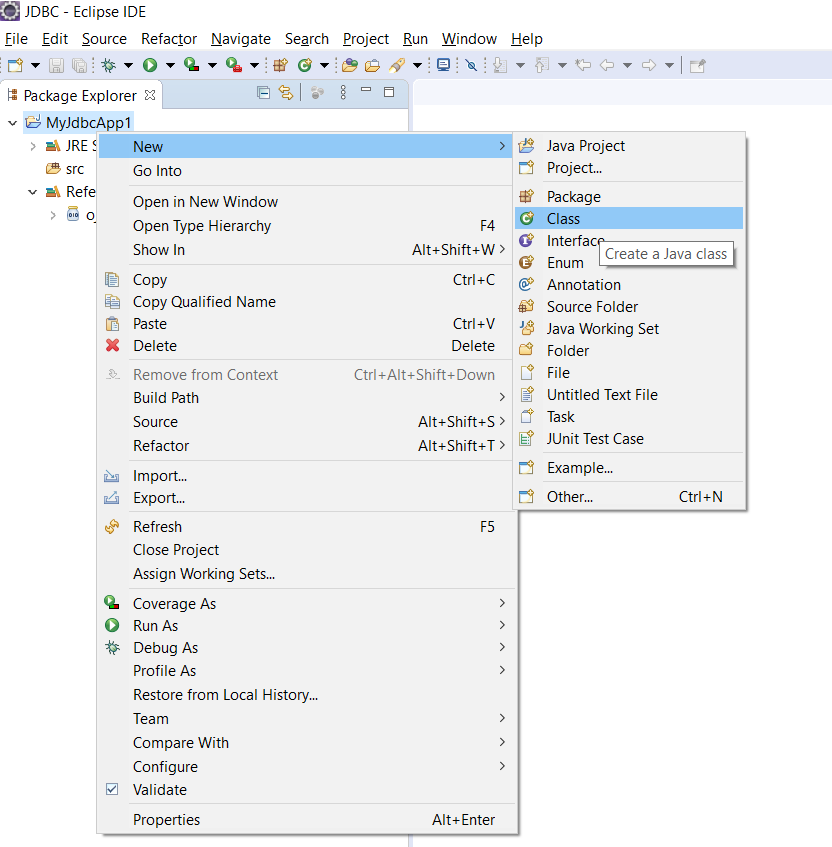


Click on Apply and Close



Write a Simple JDBC program to test whether the JDBC Driver is able to load or not?

Right Click on Project 🡪 New 🡪 Class

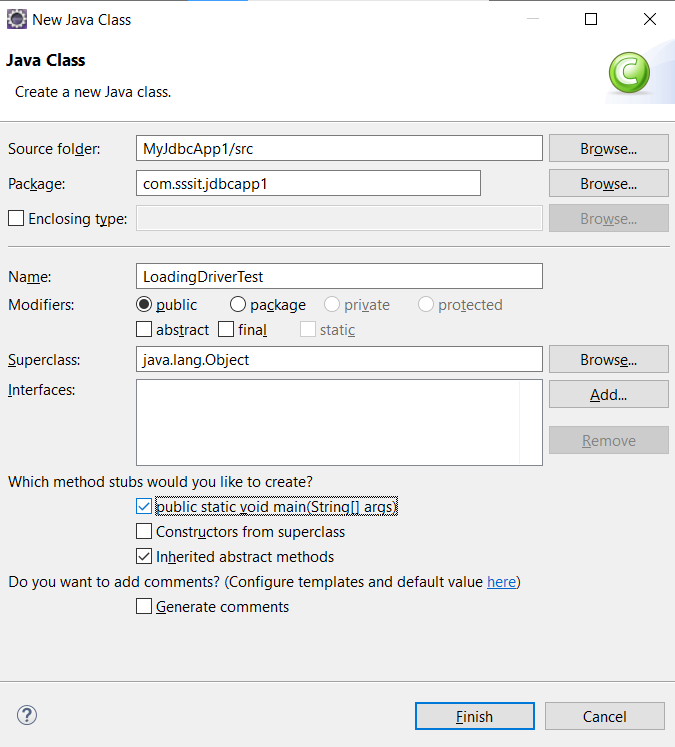


Provide the class information

Package name : com.sssit.jdbcapp1

Class name : LoadingDriverTest

Select the check box before public static void main()



Click on Finish

How to Load the Driver Class?

**Load a JDBC Driver :**

* To load a class at runtime into JVM, we need to call a static method called forName() of java.lang.Class.
* By calling the forName() method we can load the JDBC Driver class into the JVM.

Example:

|  |  |
| --- | --- |
| Oracle | Class.forName("oracle.jdbc.driver.OracleDriver”); |
| MySQL | Class.forName("com.mysql.jdbc.Driver"); |

Note:

* forName throws a checked exception called ClassNotFoundException if the class path is not set to driver. So, it should be written with in try-catch block
* Loading the driver explicitly is optional from Java 8 onwards

**package** com.sssit.jdbcapp1;

**public** **class** LoadingDriverTest {

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

}

}

}

How to Establish the Connection with Oracle 11 ?

Configuration:

* URL: jdbc:oracle:thin
* Host name : localhost
* Portnumber : 1521
* User Name : advdec23
* Password : advdec23

**package** com.sssit.jdbcapp1;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** ConnectionEstdTest {

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

Connection con = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

System.***out***.println("Connection Estd....");

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed to Estd connection...");

}

}

}