**Factory Pattern Example: DBConnection Factory**

**Interface: DBConnection**

**package** db.connection;

**public** **interface** DBConnection {

**void** getConnection();

}

**Class: MySQLDBConnection**

**package** db.connection;

**public** **class** MySQLDBConnection **implements** DBConnection {

**public** **void** getConnection(){

System.***out***.println("MySQL DB is connected");

}

}

**Class: JavaDBConnection**

**package** db.connection;

**public** **class** JavaDBConnection **implements** DBConnection{

**public** **void** getConnection(){

System.***out***.println("Java DB is connected");

}

}

**Class: OracleDBConnection**

**package** db.connection;

**public** **class** OracleDBConnection **implements** DBConnection{

**public** **void** getConnection(){

System.***out***.println("Oracle DB is connected");

}

}

**Interface: DBConnectionFactory**

**package** db.connection;

**public** **interface** DBConnectionFactory {

DBConnection createConnection();

}

**Interface: MyDBConnectionFactory**

**package** db.connection;

**public** **class** MyDBConnectionFactory **implements** DBConnectionFactory{

**private** String type;

**public** MyDBConnectionFactory(String type){

**this**.type=type;

}

**public** DBConnection createConnection(){

**if** (type.equalsIgnoreCase("Oracle")){

**return** **new** OracleDBConnection();

} **else** **if** (type.equalsIgnoreCase("MySQL")){

**return** **new** MySQLDBConnection();

} **else** **if** (type.equalsIgnoreCase("JavaDB")){

**return** **new** JavaDBConnection();

} **else** {

//default product

**return** **new** OracleDBConnection();

}

}

}

**Class: Main**

**package** db.connection;

**public** **class** Main {

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

MyDBConnectionFactory factory = **new** MyDBConnectionFactory("JavaDB");

factory.createConnection().getConnection();

factory = **new** MyDBConnectionFactory("MySQL");

factory.createConnection().getConnection();

factory = **new** MyDBConnectionFactory("Oracle");

factory.createConnection().getConnection();

}

}

Result:

Java DB is connected

MySQL DB is connected

Oracle DB is connected