

PROGRAMMING IN JAVA LAB-9

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Batch-AIML A1

Write a Java Program demonstrating the database connectivity in java.

//

DBUtil.java

```
package CountryDemo.services;

import java.sql.*;

public class DBUtil {
    private static Connection connection = null;

    private DBUtil() {} // Constructor

    public static Connection getConnection() throws SQLException
    {
        if (connection == null)
        {
            String username = "admin";
            String password = "admin";
            String url = "jdbc:mysql://localhost:3306/HR";
            // Creating the connection
            connection = DriverManager.getConnection(url, username, password);
        }
        return connection;
    }
}
```

CountryDemo.java

```
package CountryDemo.CountryDemo;

import CountryDemo.services.DBUtil;

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class CountryDemo {
    public static class CountryServices {
        public static void main(String[] args)
        {
            String sql = "select country_name from countries";
            try(Connection connection = DBUtil.getConnection();
                Statement statement = connection.createStatement()){
                ResultSet resultSet = statement.executeQuery(sql); // In case of select executeQuery is
used
                int count = 0;
                while(resultSet.next())
                {
                    count++;
                    System.out.println(resultSet.getString("country_name"));
                }
                System.out.println(count+ " countries found");
                resultSet.close();
            }catch (SQLException ex)
            {
                System.out.println("Problem:" + ex.getMessage());
            }
        }
    }
}
```

OUTPUT

```
Egypt  
France  
HongKong  
Israel  
India  
Italy  
Japan  
Kuwait  
Mexico  
Nigeria  
Netherlands  
Singapore  
United Kingdom  
United States of America  
Zambia  
Zimbabwe  
25 countries found
```

GITHUB LINK: <https://github.com/aadarsh1810/JAVA/tree/main/Assignment-9>