**Day 22\_Java Assignment**

**1. Problem Description:**

What is JDBC?

Write a java code to establish a connection?

Write a steps to establish java database connection?

Console log all the sequence of steps executed internally.

**2. My Solution:**

JDBC stands for Java Database Connectivity. It is a Java API (Application Programming Interface) that allows Java application to interact with databases. JDBC enables developers to perform various database operations such as connecting to a database, executing SQL queries, retrieving, and updating data, and managing transactions.

**Example:**

**package** daily\_assesment;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** DataBaseConnection {

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

//load and register the driver

Class.*forName*("com.mysql.cj.jdbc.Driver");

System.***out***.println("Driver is registered");

//Establish the connection

String url = "jdbc:mysql://localhost:3306/school\_db";

String userName = "root";

String password = "5.Exercise!";

**try** {

Connection connect = DriverManager.*getConnection*(url, userName, password);

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

connect.close();

} **catch** (SQLException e) {

System.***out***.println("Failed to connect to the datatbase.");

e.printStackTrace();

}

}

}

**Output:**

Driver is registered

Connection Established