**Simple application to create db connect through properties ,insert anything(user input) and view table content**

**package** Favorite;

**import** java.io.FileInputStream;

**import** java.io.IOException;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.Properties;

**import** java.util.Scanner;

**public** **class** FavoriteNumbers {

**private** **static** String *URL*;

**private** **static** String *USER*;

**private** **static** String *PASSWORD*;

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

*loadDatabaseConfig*();

**try** {

Connection connection = DriverManager.*getConnection*(*URL*, *USER*, *PASSWORD*);

System.***out***.println("Connected to the database!");

*createTableIfNotExists*(connection);

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.print("Enter your favorite number: ");

**int** favoriteNumber = scanner.nextInt(); // Take user input

// Add the favorite number

*addFavoriteNumber*(connection, favoriteNumber);

// View all favorite numbers

*viewFavoriteNumbers*(connection);

// Close the connection

connection.close();

scanner.close(); // Close the scanner

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**private** **static** **void** loadDatabaseConfig() {

Properties properties = **new** Properties();

**try** (FileInputStream input = **new** FileInputStream("F:/java\_assignments/bookdb/src/config.properties")) {

properties.load(input);

*URL* = properties.getProperty("db.url");

*USER* = properties.getProperty("db.user");

*PASSWORD* = properties.getProperty("db.password");

} **catch** (IOException e) {

System.***out***.println("Error loading configuration: " + e.getMessage());

e.printStackTrace();

}

}

**private** **static** **void** createTableIfNotExists(Connection connection) **throws** SQLException {

String createTableSQL = "IF NOT EXISTS (SELECT \* FROM INFORMATION\_SCHEMA.TABLES WHERE TABLE\_NAME = 'FavoriteNumbers') "

+ "CREATE TABLE FavoriteNumbers ("

+ "id INT PRIMARY KEY IDENTITY(1,1),"

+ "number INT)";

PreparedStatement preparedStatement = connection.prepareStatement(createTableSQL);

preparedStatement.executeUpdate();

System.***out***.println("Checked and created table if it did not exist.");

}

**private** **static** **void** addFavoriteNumber(Connection connection, **int** number) **throws** SQLException {

String insertSQL = "INSERT INTO FavoriteNumbers (number) VALUES (?)";

PreparedStatement preparedStatement = connection.prepareStatement(insertSQL);

preparedStatement.setInt(1, number);

preparedStatement.executeUpdate();

System.***out***.println("Added favorite number: " + number);

}

**private** **static** **void** viewFavoriteNumbers(Connection connection) **throws** SQLException {

String selectSQL = "SELECT \* FROM FavoriteNumbers";

ResultSet resultSet = connection.createStatement().executeQuery(selectSQL);

System.***out***.println("Favorite Numbers:");

**while** (resultSet.next()) {

System.***out***.println(resultSet.getInt("number"));

}

}

}

**Config file :**

db.url=jdbc:sqlserver://172.16.51.64;databaseName=241047011;encrypt=true;trustServerCertificate=true

db.user=deepthi

db.password=Dee@01