21110709 – Đặng Công Tuấn

Bài tập.

1.Viết chương trình kết nối CSDL SQL Server theo mô hình Client-Server bằng C#.

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| using System; using System.Collections.Generic; using System.ComponentModel; using System.Data; using System.Data.SqlClient; using System.Drawing; using System.Linq; using System.Text; using System.Threading.Tasks; using System.Windows.Forms;  namespace Connection\_to\_Database  { public partial class Form1 : Form  { public Form1()  {  InitializeComponent();  }  private void Form1\_Load(object sender, EventArgs e)  { rdbWindows.Checked = true; txtMatKhau.ReadOnly = true; txtTaiKhoan.ReadOnly = true;  }  private void rdbWindows\_CheckedChanged(object sender, EventArgs e)  { txtTaiKhoan.ReadOnly = true; txtMatKhau.ReadOnly = true; txtTenDb.ReadOnly = false; txtTenServer.ReadOnly = false;  }  private void rdbSQL\_CheckedChanged(object sender, EventArgs e)  { txtTaiKhoan.ReadOnly = false; |

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| txtMatKhau.ReadOnly = false; txtTenDb.ReadOnly = false; txtTenServer.ReadOnly = false;  }  private void btnCancel\_Click(object sender, EventArgs e) {  DialogResult dg = MessageBox.Show("B n có mu n thoát?"ạ ố , "Thông báo", MessageBoxButtons.OKCancel, MessageBoxIcon.Question); if(dg == DialogResult.OK)  {  Application.Exit();  }  }  private void btnConnect\_Click(object sender, EventArgs e)  { try  {  SqlConnection conn = new SqlConnection(); string connectionstring = ""; if (rdbWindows.Checked == true)  { connectionstring = "server=" + txtTenServer.Text; connectionstring += ";database=" + txtTenDb.Text; connectionstring += ";integrated security=true"; conn.ConnectionString = connectionstring;  } else { connectionstring = "server=" + txtTenServer.Text; connectionstring += ";database=" + txtTenDb.Text; connectionstring += ";uid=" + txtTaiKhoan.Text; connectionstring += ";pwd=" + txtMatKhau.Text; conn.ConnectionString = connectionstring;  }  conn.Open();  MessageBox.Show("ket noi thanh cong"); conn.Close();  } catch (Exception ex)  {  MessageBox.Show(ex.Message);  }  } |

}

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2.Viết chương trình kết nối CSDL SQL Server trên thiết bị di động sử dụng hệ điều hành Android.

**.xml :**

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| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" android:padding="16dp" tools:context=".MainActivity">  <Button android:id="@+id/connectButton" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Connect to Database" />  <TextView android:id="@+id/resultTextView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginTop="16dp" android:text="Result:" />  </LinearLayout> |

**.java :**

import android.os.AsyncTask; import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.TextView; import androidx.appcompat.app.AppCompatActivity; import java.sql.Connection; import java.sql.ResultSet;

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| import java.sql.Statement; import java.sql.SQLException;  public class MainActivity extends AppCompatActivity { private Button connectButton; private TextView resultTextView;  @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);  connectButton = findViewById(R.id.connectButton); resultTextView = findViewById(R.id.resultTextView);  connectButton.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  ConnectDBTask task = new ConnectDBTask(); task.execute();  }  }); }  private class ConnectDBTask extends AsyncTask<Void, Void, String> {  @Override protected String doInBackground(Void... voids) { try {  Connection conn = SQLConnector.connect();  Statement stmt = conn.createStatement();  ResultSet rs = stmt.executeQuery("SELECT \* FROM your\_table\_name");  StringBuilder result = new StringBuilder();  while (rs.next()) {  String data = rs.getString("column\_name"); result.append(data).append("\n");  }  rs.close(); stmt.close(); conn.close(); return result.toString(); |

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| } catch (SQLException e) {  e.printStackTrace(); return "Error: " + e.getMessage();  }  }  @Override protected void onPostExecute(String s) { super.onPostExecute(s); resultTextView.setText("Result:\n" + s);  }  }  } |