II. Bài tập:

1) Viết chương trình phân giải tên miền.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Net;

using System.Text;

using System.Threading.Tasks;

namespace Lab01\_NguyễnÁiMừng\_2212420

{

internal class Program

{

static void GetHostInfo(string host)

{

try

{

IPHostEntry hostInfo = Dns.GetHostEntry(host);

Console.WriteLine("Ten mien:" + hostInfo.HostName);

Console.WriteLine("Dia chi IP:");

foreach (IPAddress ipaddr in hostInfo.AddressList)

{

Console.Write(ipaddr.ToString() + "");

}

Console.WriteLine();

}

catch (Exception)

{

Console.WriteLine("khong phan giai duoc ten mien:" + host + "\n");

}

}

static void Main(string[] args)

{

foreach (string arg in args)

{

Console.WriteLine("Phan giai ten mien:" + arg);

GetHostInfo(arg);

}

Console.ReadKey();

}

}

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Viết chương trình hiển thị thông tin chi tiết về giao thức IP của local host gồm: địa chỉ IP, subnet mask, default gateway.

using System;

using System.Linq;

using System.Net;

using System.Net.NetworkInformation;

class Program

{

static void Main()

{

foreach (NetworkInterface nic in NetworkInterface.GetAllNetworkInterfaces())

{

if (nic.OperationalStatus == OperationalStatus.Up)

{

var ipProps = nic.GetIPProperties();

var ipAddress = ipProps.UnicastAddresses

.FirstOrDefault(ip => ip.Address.AddressFamily == System.Net.Sockets.AddressFamily.InterNetwork);

var gateway = ipProps.GatewayAddresses

.FirstOrDefault(g => g.Address.AddressFamily == System.Net.Sockets.AddressFamily.InterNetwork);

if (ipAddress != null)

{

Console.WriteLine($"Network Interface: {nic.Name}");

Console.WriteLine($" IP Address: {ipAddress.Address}");

Console.WriteLine($" Subnet Mask: {ipAddress.IPv4Mask}");

if (gateway != null)

{

Console.WriteLine($" Default Gateway: {gateway.Address}");

}

else

{

Console.WriteLine(" Default Gateway: Not found");

}

Console.WriteLine();

}

}

}

Console.ReadKey();

}

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private void btnPhanGiai\_Click(object sender, EventArgs e)

{

lstInfo.Items.Clear();

string domain = txtDomain.Text.Trim();

if (!string.IsNullOrWhiteSpace(domain))

{

try

{

IPHostEntry hostEntry = Dns.GetHostEntry(domain);

lstInfo.Items.Add($"Domain: {domain}");

lstInfo.Items.Add("IP Addresses:");

foreach (IPAddress ip in hostEntry.AddressList)

{

lstInfo.Items.Add($" {ip}");

}

}

catch (Exception ex)

{

lstInfo.Items.Add("Error resolving domain:");

lstInfo.Items.Add(ex.Message);

}

}

else

{

lstInfo.Items.Add("Please enter a domain name.");

}

}

}

}

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