



Network Programming

Ung Văn Giàu

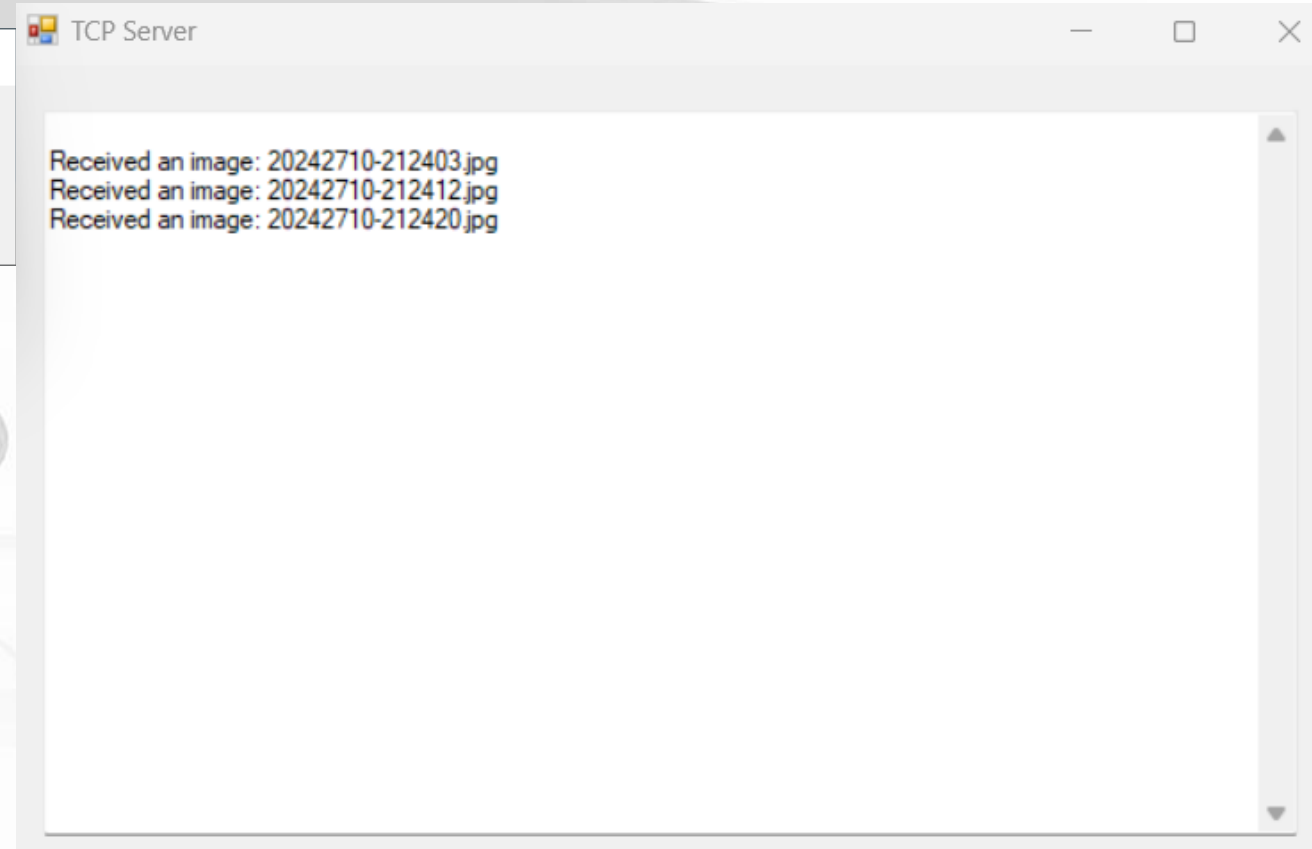
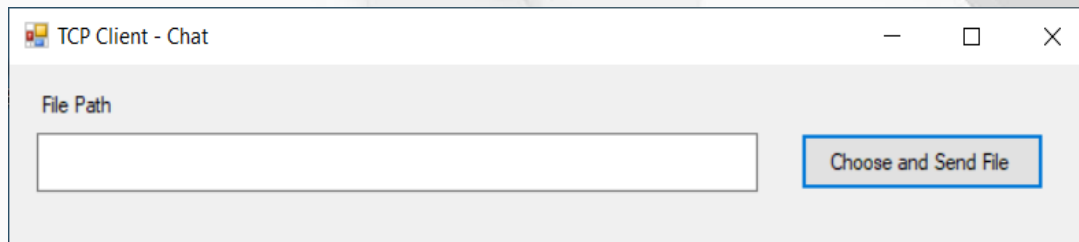
Email: giau.ung@eiu.edu.vn



Lab 3

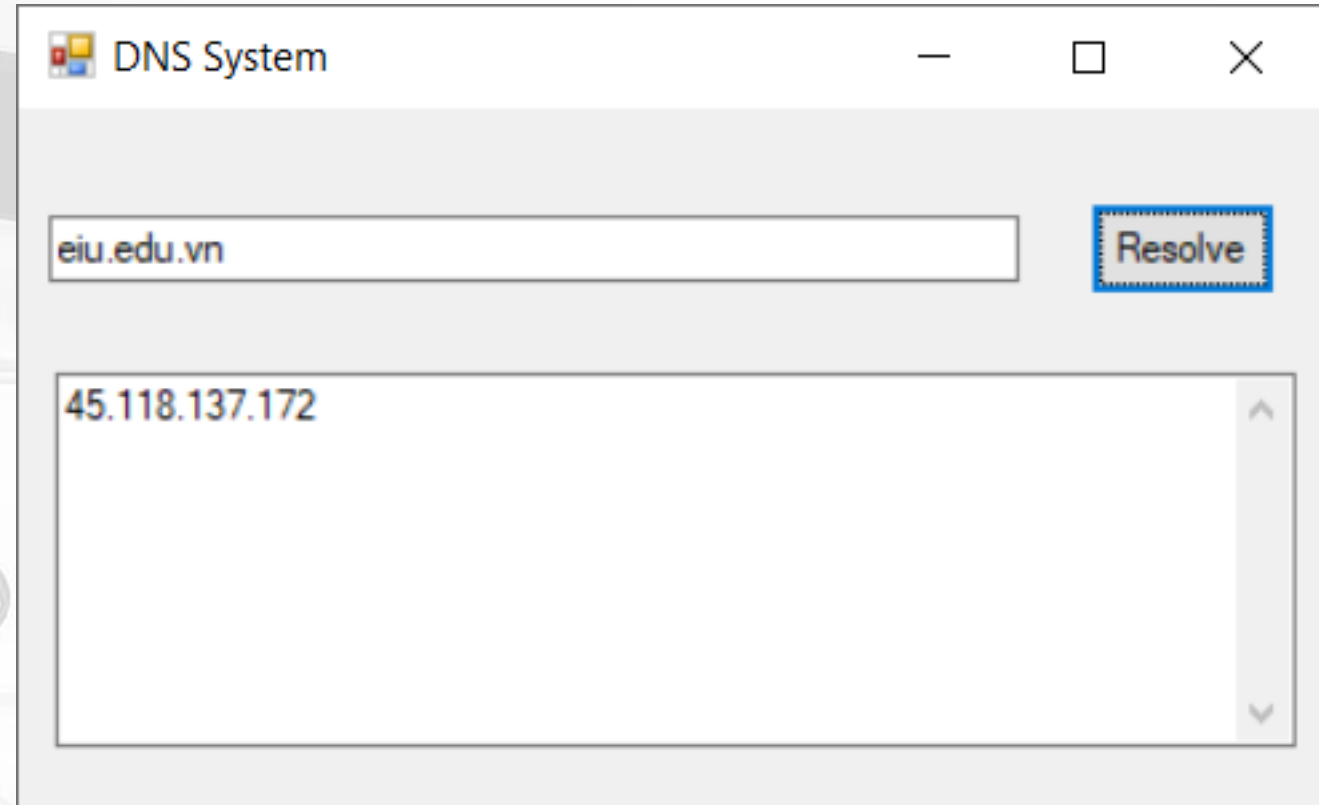
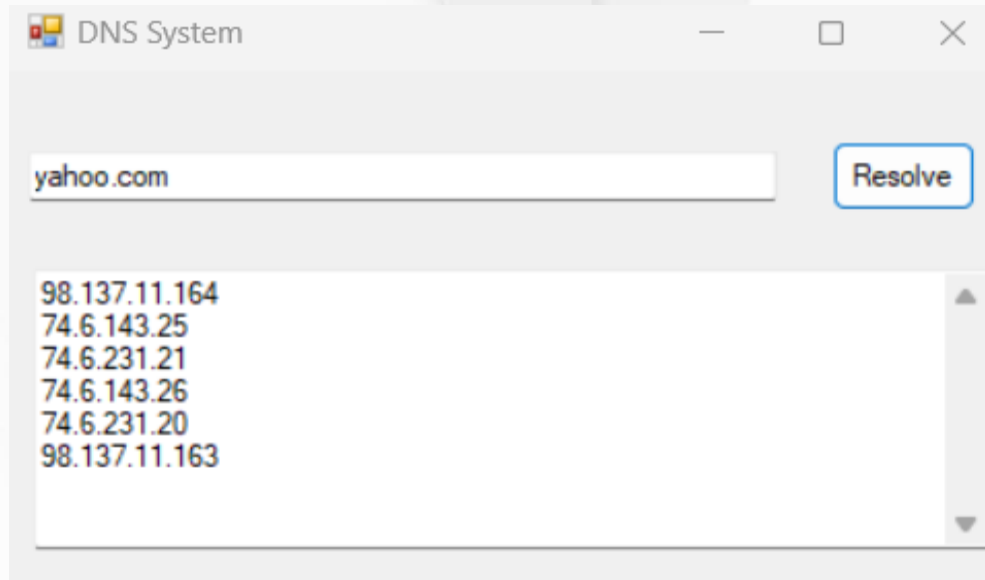
Assignment 1

Write a client program which send an image (.jpg, .png, .gif) and a server program which receives it.



Assignment 2

Write a program which returns IP addresses for the specified host.

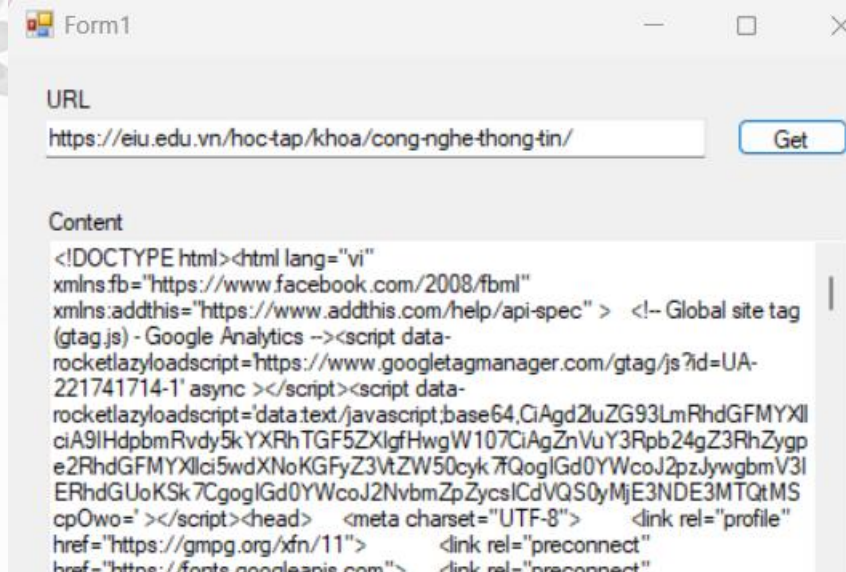


Assignment 3

Write a program to get website content using GET Method and HttpClient Class.

Test your program with the following links:

- <http://example.com>
- <https://eiu.edu.vn>
- Search Page of <https://vnexpress.net>

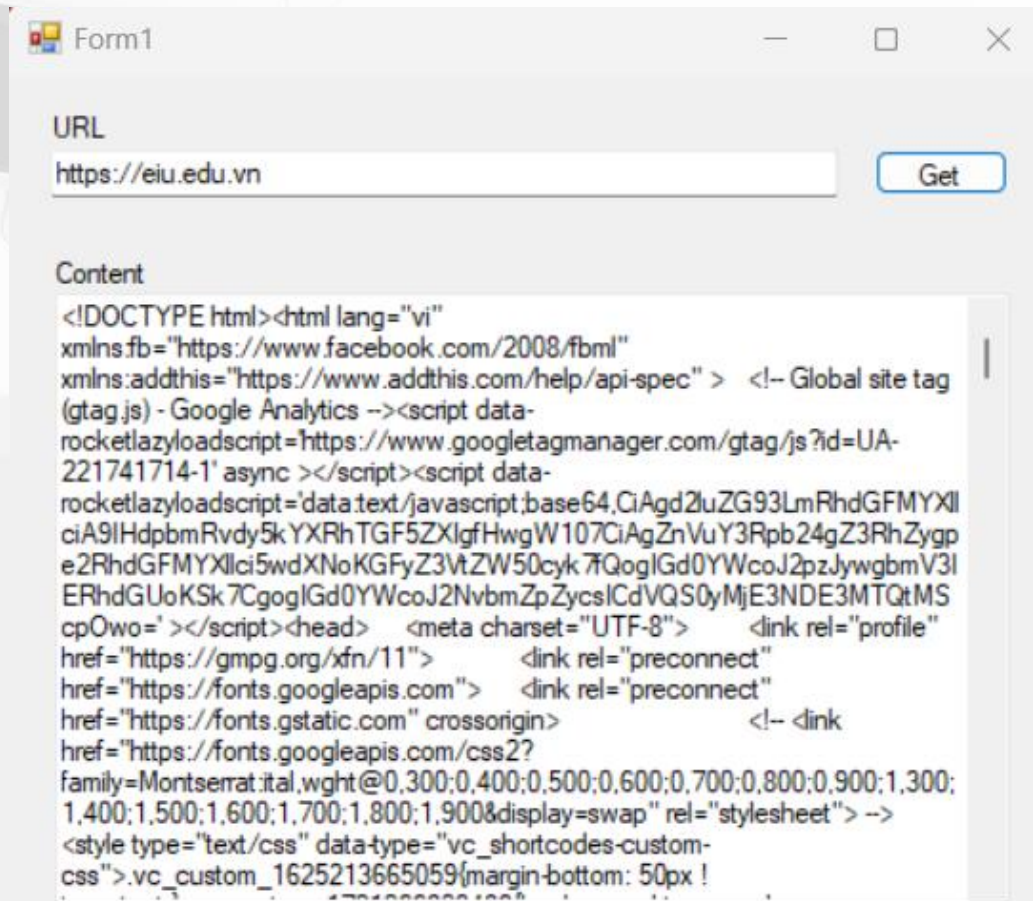


Form1

URL
<https://eiu.edu.vn/hoc-tap/khoa/cong-nghe-thong-tin/> Get

Content

```
<!DOCTYPE html><html lang="vi"
xmlns:fb="https://www.facebook.com/2008/fbml"
xmlns:addthis="https://www.addthis.com/help/api-spec" > <!-- Global site tag
(gtag.js) - Google Analytics --><script data-
rocketlazyloadscript="https://www.googletagmanager.com/gtag/js?id=UA-
221741714-1" async ></script><script data-
rocketlazyloadscript='data:text/javascript;base64,CiAgd2luZG93LmRhdGFMYXll
ciA9IHdpbmRvdY5kYXRhTGf5ZlhfHwgW107CiAgZnVuY3Rpb24gZ3RhZygp
e2RhdGFMYXllci5wdXNoKGfYz3VtZW50cyk7QogIGd0YWcoJ2pzJywgbmV3I
ERhdGUoKSk7CgogIGd0YWcoJ2NvbmlZpZyYsICdVQSOyMjE3NDE3MTQMS
cpOwo=' ></script><head> <meta charset="UTF-8"> <link rel="profile"
href="https://gmpg.org/xfn/11"> <link rel="preconnect"
href="https://fonts.googleapis.com"> <link rel="preconnect"
href="https://fonts.gstatic.com" crossorigin> <!-- <link
href="https://fonts.googleapis.com/css2?
family=Montserrat:ital,wght@0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,300;
1,400;1,500;1,600;1,700;1,800;1,900&display=swap" rel="stylesheet"> -->
<style type="text/css" data-type="vc_shortcode-custom-
css">.vc_custom_1625213665059{margin-bottom: 50px !
```



Form1

URL
<https://eiu.edu.vn> Get

Content

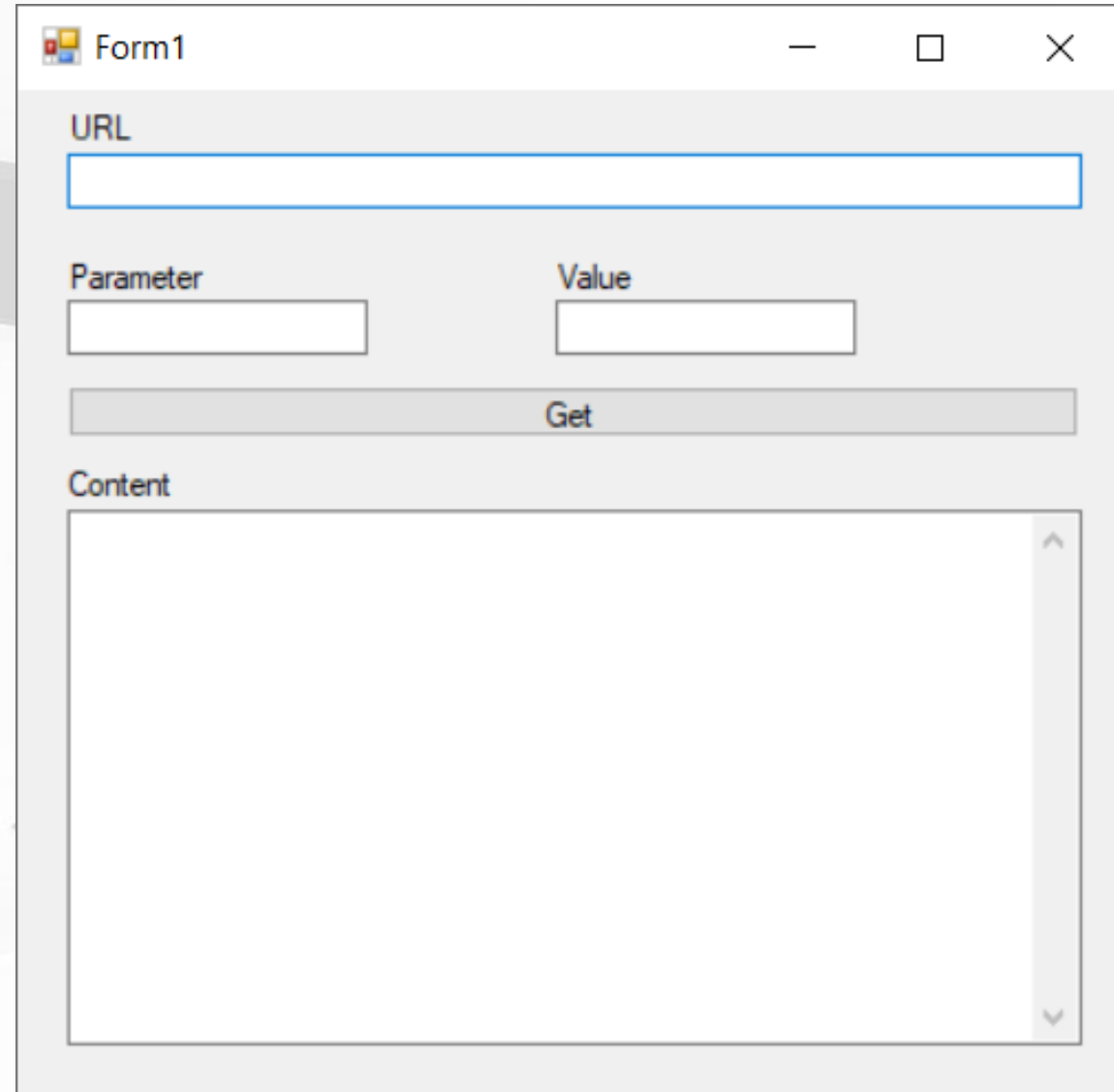
```
<!DOCTYPE html><html lang="vi"
xmlns:fb="https://www.facebook.com/2008/fbml"
xmlns:addthis="https://www.addthis.com/help/api-spec" > <!-- Global site tag
(gtag.js) - Google Analytics --><script data-
rocketlazyloadscript="https://www.googletagmanager.com/gtag/js?id=UA-
221741714-1" async ></script><script data-
rocketlazyloadscript='data:text/javascript;base64,CiAgd2luZG93LmRhdGFMYXll
ciA9IHdpbmRvdY5kYXRhTGf5ZlhfHwgW107CiAgZnVuY3Rpb24gZ3RhZygp
e2RhdGFMYXllci5wdXNoKGfYz3VtZW50cyk7QogIGd0YWcoJ2pzJywgbmV3I
ERhdGUoKSk7CgogIGd0YWcoJ2NvbmlZpZyYsICdVQSOyMjE3NDE3MTQMS
cpOwo=' ></script><head> <meta charset="UTF-8"> <link rel="profile"
href="https://gmpg.org/xfn/11"> <link rel="preconnect"
href="https://fonts.googleapis.com"> <link rel="preconnect"
href="https://fonts.gstatic.com" crossorigin> <!-- <link
href="https://fonts.googleapis.com/css2?
family=Montserrat:ital,wght@0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,300;
1,400;1,500;1,600;1,700;1,800;1,900&display=swap" rel="stylesheet"> -->
<style type="text/css" data-type="vc_shortcode-custom-
css">.vc_custom_1625213665059{margin-bottom: 50px !
```

Assignment 4

Write a program to get data from a server
(<http://139.180.213.49/getdata.php>) using
HttpClient Class.

The server only return result when you use
POST method with a parameter named “type”
and its value is assigned “all”.

<https://httpbin.org/post>



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a "URL" label followed by a text input field. Below this, there are two labels, "Parameter" and "Value", each followed by a text input field. A "Get" button is positioned below these two fields. At the bottom of the window, there is a "Content" label followed by a large text area with a vertical scrollbar on the right side.

Assignment 5

Write a program to download a file (.jpg, .png,...) from a server.

