BÀI THỰC HÀNH 01
HTML CƠ BẢN

1. Đánh dấu một lá thư

Công cụ hỗ trợ: Visual Studio Code

Nội dung thực hiện:

- Sử dụng các loại tài liệu cấu trúc thích hợp như DOCTYPE, và các phần tử <html>, <head>, <body>.

- Bộ ký tự của tài liệu (character set) phải được đặt là "utf-8" bằng cách sử dụng thẻ <meta>.

- Tác giả của bức thư phải đặc trong một thẻ <meta>.

- CSS được cung cấp phải để trong thẻ thích hợp ở phần này.

- Đặt 2 địa chỉ trong các phần tử <address>. Mỗi dòng của địa chỉ nên nằm trên một dòng mới, nhưng không nằm trong một đoạn mới.

- Tên của người gửi (sender) và nhận (receiver) (cả điện thoại Tel và Email) phải được đánh dấu với mức độ quan trọng cao (strong importance).

- Bốn ngày tháng xuất hiện trong bức thư phải được đánh dấu bằng các phần tử ngày tháng mà máy có thể đọc được.

- Địa chỉ và ngày tháng đầu tiên trong thư phải có thuộc tính lớp (class) với giá trị là "sender-column".

```html
<!-- 20521150 - Phạm Quốc Cường -->
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <title>Mail of University</title>
        <meta name="author" content="Miss Eileen Dover">
        <link rel="stylesheet" href="./main.css">
    </head>
    <body>
        <address class="sender-column">
            <strong>Dr. Eleanor Gaye</strong><br>
            Awesome Science faculty<br>
            University of Awesome<br>
            Bobtown, CA 99999,<br>
            USA<br>
            <strong>Tel</strong>: 123-456-7890<br>
            <strong>Email</strong>: no_reply@example.com
        </address>

        <p class="sender-column"><time datetime="2016-01-20">20 January 2016</time></p>
```

Dr. Eleanor Gaye
Awesome Science faculty
University of Awesome
Bobtown, CA 99999,
USA
Tel: 123-456-7890
Email: no_reply@example.com

20 January 2016

- Thông tin người nhận.

```
22   <!-- 20521150 - Phạm Quốc Cường -->
23       <address class="recipient-column">
24           <strong>Miss Eileen Dover</strong><br>
25           4321 Cliff Top Edge<br>
26           Dover, CT9 XXX<br>
27           UK
28       </address>
```

Miss Eileen Dover
4321 Cliff Top Edge
Dover, CT9 XXX
UK

- Bức thư phải được đánh dấu với cách tổ chức gồm các tiêu đề và đoạn văn, trừ một dòng tiêu đề cấp cao nhất (dòng "Re:") và ba tiêu đề cấp 2.
- Sử dụng các loại đánh dấu phù hợp để đánh dấu "semester start dates, study subjects, và exotic dances".
- Đánh dấu năm từ viết tắt (acronyms/abbreviations) trong nội dung chính của bức thư – "PhD", "HTML", "CSS", "BC", và "Esq" – để cung cấp bản mở rộng giải thích cho từng chữ cái. (PhD – Doctor of Philosophy, BC – Before Christ, Esq – Esquire).
- Có hai chỗ mà bức thư nên đặt siêu liên kết (hyperlink). Đối với vị trí mà các liên kết trỏ đến, bạn có thể sử dụng https://uit.edu.vn làm URL.

```
29  <!-- 20521150 - Phạm Quốc Cường -->
30      <div class="mail-message">
31          <h1>Re: Eileen Dover university application</h1>
32          <p>Dear Eileen,</p>
33          <p>
34              Thank you for your recent application to join us at the University of Awesome's science faculty to
                study as part of your <abbr title="Doctor of Philosophy">PhD</abbr> next year. I will answer your
                questions one by one, in the following sections.
35          </p>
36          <h2>Starting dates</h2>
37          <p>
38              We are happy to accommodate you starting your study with us at any time, however it would suit us
                better if you could start at the beginning of a semester; the start dates for each one are as
                follows:
39          </p>
40          <ul>
41              <li>First semester: <time datetime="2016-09-09">9 September 2016</time></li>
42              <li>Second semester: <time datetime="2017-01-15">15 January 2017</time></li>
43              <li>Third semester: <time datetime="2017-05-02">2 May 2017</time></li>
44          </ul>
45          <p>Please let me know if this is ok, and if so which start date you would prefer.</p>
46          <p>
47              You can find more information about <a href="https://uit.edu.vn" title="important
                information">important university dates</a> on our website.
48          </p>
```

Re: Eileen Dover university application

Dear Eileen,

Thank you for your recent application to join us at the University of Awesome's science faculty to study as part of your PhD next year. I will answer your questions one by one, in the following sections.

Starting dates

We are happy to accommodate you starting your study with us at any time, however it would suit us better if you could start at the beginning of a semester; the start dates for each one are as follows:

- First semester: 9 September 2016
- Second semester: 15 January 2017
- Third semester: 2 May 2017

Please let me know if this is ok, and if so which start date you would prefer.

You can find more information about important university dates on our website.

- Sáu ký tự phụ/ ký tự trên (sub/superscript) phải được đánh dấu phù hợp theo công thức hóa học, ký hiệu số mũ trong toán học.

```
49    <!-- 20521150 - Phạm Quốc Cường -->
50            <h2>Subjects of study</h2>
51            <p>
52                At the Awesome Science Faculty, we have a pretty open-minded research facility — as long as the
                  subjects fall somewhere in the realm of science and technology. You seem like an intelligent,
                  dedicated researcher, and just the kind of person we'd like to have on our team. Saying that, of
                  the ideas you submitted we were most intrigued by are as follows, in order of priority:
53            </p>
54            <ol>
55                <li>
56                    Turning H<sub>2</sub>O into wine, and the health benefits of Resveratrol
57                    (C<sub>14</sub>H<sub>12</sub>O<sub>3</sub>.)
58                </li>
59                <li>
60                    Measuring the effect on performance of funk bassplayers at temperatures exceeding 30°C (86°F),
                      when the audience size exponentially increases (effect of 3 × 103 increasing to 3 × 104.)
61                </li>
62                <li>
63                    <abbr title="Hypertext Markup Language">HTML</abbr> and <abbr title="Cascading Style
                      Sheets">CSS</abbr> constructs for representing musical scores.
64                </li>
65            </ol>
66            <p>
67                So please can you provide more information on each of these subjects, including how long you'd
                  expect the research to take, required staff and other resources, and anything else you think we'd
                  need to know? Thanks.
68            </p>
```

Subjects of study

At the Awesome Science Faculty, we have a pretty open-minded research facility — as long as the subjects fall somewhere in the realm of science and technology. You seem like an intelligent, dedicated researcher, and just the kind of person we'd like to have on our team. Saying that, of the ideas you submitted we were most intrigued by are as follows, in order of priority:

1. Turning H_2O into wine, and the health benefits of Resveratrol ($C_{14}H_{12}O_3$.)
2. Measuring the effect on performance of funk bassplayers at temperatures exceeding 30°C (86°F), when the audience size exponentially increases (effect of 3×103 increasing to 3×104.)
3. HTML and CSS constructs for representing musical scores.

So please can you provide more information on each of these subjects, including how long you'd expect the research to take, required staff and other resources, and anything else you think we'd need to know? Thanks.

- Đánh dấu ít nhất hai từ thích hợp trong văn bản với mức độ quan trọng/nhấn mạnh (strong/emphasis): did / very.

```
69    <!-- 20521150 - Phạm Quốc Cường -->
70            <h2>Exotic dance moves</h2>
71            <p>
72                Yes, you are right! As part of my post-doctorate work, I <em>did</em> study exotic tribal dances.
                  To answer your question, my favourite dances are as follows, with definitions:
73            </p>
74            <dl>
75                <dt>Polynesian chicken dance</dt>
76                <dd>
77                    A little known but <em>very</em> influential dance dating back as far as 300 <abbr
                      title="Before Christ">BC</abbr>, a whole village would dance around in a circle like chickens,
                      to encourage their livestock or be "fruitful".
78                </dd>
79                <dt>Icelandic brownian shuffle</dt>
80                <dd>
81                    Before the Icelanders developed fire as a means of getting warm, they used to practice this
                      dance, which involved huddling close together in a circle on the floor, and shuffling their
                      bodies around in imperceptibly tiny, very rapid movements. One of my fellow students used to
                      say that he thought this dance inspired modern styles such as Twerking.
82                </dd>
83                <dt>Arctic robot dance</dt>
84                <dd>
85                    An interesting example of historic misinformation, English explorers in the 1960s believed to
                      have discovered a new dance style characterised by "robotic", stilted movements, being
                      practiced by inhabitants of Northern Alaska and Canada. Later on however it was discovered that
                      they were just moving like this because they were really cold.
86                </dd>
87            </dl>
```

Exotic dance moves

Yes, you are right! As part of my post-doctorate work, I *did* study exotic tribal dances. To answer your question, my favourite dances are as follows, with definitions:

Polynesian chicken dance
> A little known but *very* influential dance dating back as far as 300 BC, a whole village would dance around in a circle like chickens, to encourage their livestock or be "fruitful".

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> An interesting example of historic misinformation, English explorers in the 1960s believed to have discovered a new dance style characterised by "robotic", stilted movements, being practiced by inhabitants of Northern Alaska and Canada. Later on however it was discovered that they were just moving like this because they were really cold.

- Có hai chỗ mà bức thư nên đặt siêu liên kết (hyperlink). Đối với vị trí mà các liên kết trỏ đến, bạn có thể sử dụng https://uit.edu.vn làm URL.

- Đánh dấu các trích dẫn phương châm đại học (quote) và trích dẫn (citation) với các yếu tố thích hợp.

```
88    <!-- 20521150 - Phạm Quốc Cường -->
89            <p>For more of my research, see my <a href="https://uit.edu.vn" title="exotic dance research">exotic
             dance research page</a>.</p>
90            <p>Yours sincerely,</p>
91            <p>Dr Eleanor Gaye</p>
92            <p>
93                University of Awesome motto: <q>Be excellent to each other.</q> --
94                <cite>
95                    The memoirs of Bill S Preston, <abbr title="Esquire">Esq.</abbr>
96                </cite>
97            </p>
98        </div>
99    </body>
100
101  </html>
```

For more of my research, see my exotic dance research page.

Yours sincerely,

Dr Eleanor Gaye

University of Awesome motto: "Be excellent to each other." -- *The memoirs of Bill S Preston, Esq.*

Kết quả thực hiện:

Dr. Eleanor Gaye
Awesome Science faculty
University of Awesome
Bobtown, CA 99999,
USA
Tel: 123-456-7890
Email: no_reply@example.com

20 January 2016

Miss Eileen Dover
4321 Cliff Top Edge
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3. HTML and CSS constructs for representing musical scores.

So please can you provide more information on each of these subjects, including how long you'd expect the research to take, required staff and other resources, and anything else you think we'd need to know? Thanks.

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Kết quả kiểm tra với Showing results for contents of text-input area - Nu Html Checker (w3.org)

Document checking completed. No errors or warnings to show.

Source

```
1.  <!-- 20521150 - Phạm Quốc Cường -->
2.  <!DOCTYPE html>
3.  <html lang="en">
4.      <head>
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6.          <title>Mail of University</title>
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8.          <link rel="stylesheet" href="./main.css">
9.      </head>
10.     <body>
11.         <address class="sender-column">
12.             <strong>Dr. Eleanor Gaye</strong><br>
13.             Awesome Science faculty<br>
14.             University of Awesome<br>
15.             Bobtown, CA 99999,<br>
16.             USA<br>
17.             <strong>Tel</strong>: 123-456-7890<br>
18.             <strong>Email</strong>: no_reply@example.com
19.         </address>
```

2. Cấu trúc một trang web

Công cụ hỗ trợ: Visual Studio Code

Nội dung thực hiện:

Các thẻ thêm vào:

- Thẻ tiêu đề: header

- Thẻ thanh điều hướng: nav

```html
1   <!-- 20521150 - Phạm Quốc Cường - Bài 02 -->
2   <!DOCTYPE html>
3   <html lang="en">
4     <head>
5       <meta charset="utf-8">
6       <title>Birdwatching</title>
7       <link href="https://fonts.googleapis.com/css?family=Roboto+Condensed:300%7CCinzel+Decorative:700"
        rel="stylesheet">
8       <link rel="stylesheet" href="style.css">
9       <!--[if lt IE 9]>
10        <script src="https://cdnjs.cloudflare.com/ajax/libs/html5shiv/3.7.3/html5shiv.js"></script>
11      <![endif]-->
12    </head>
13
14    <body>
15      <header>
16        <h1>Birdwatching</h1>
17        <img src="dove.png" alt="a simple dove logo">
18        <nav>
19          <ul>
20            <li><span>Home</span></li>
21            <li><a href="#">Get started</a></li>
22            <li><a href="#">Photos</a></li>
23            <li><a href="#">Gear</a></li>
24            <li><a href="#">Forum</a></li>
25          </ul>
26        </nav>
27      </header>
```


Các thẻ đã thêm vào:

- Thẻ nội dung chính: main

- Thẻ article và thẻ aside

```
28    <!-- 20521150 - Phạm Quốc Cường - Bài 02 -->
29      <main>
30        <article>
31          <h2>Welcome</h2>
32          <p>
33            Welcome to our fake birdwatching site. If this were a real site, it would be the ideal place to come to
              learn more about birdwatching, whether you are a beginner looking to learn how to get into birding, or an
              expert wanting to share ideas, tips, and photos with other like-minded people.
34          </p>
35          <p>
36            So don't waste time! Get what you need, then turn off that computer and get out into the great outdoors!
37          </p>
38        </article>
39        <aside>
40          <h2>Favourite photos</h2>
41          <a href="favorite-1.jpg"><img src="favorite-1_th.jpg" alt="Small black bird, black claws, long black
              slender beak, links to larger version of the image"></a>
42          <a href="favorite-2.jpg"><img src="favorite-2_th.jpg" alt="Top half of a pretty bird with bright blue
              plumage on neck, light colored beak, blue headdress, links to larger version of the image"></a>
43          <a href="favorite-3.jpg"><img src="favorite-3_th.jpg" alt="Top half of a large bird with white plumage,
              very long curved narrow light colored break, links to larger version of the image"></a>
44          <a href="favorite-4.jpg"><img src="favorite-4_th.jpg" alt="Large bird, mostly white plumage with black
              plumage on back and rear, long straight white beak, links to larger version of the image"></a>
45        </aside>
46      </main>
```


Các thẻ đã thêm vào:

- Thẻ chân trang: footer
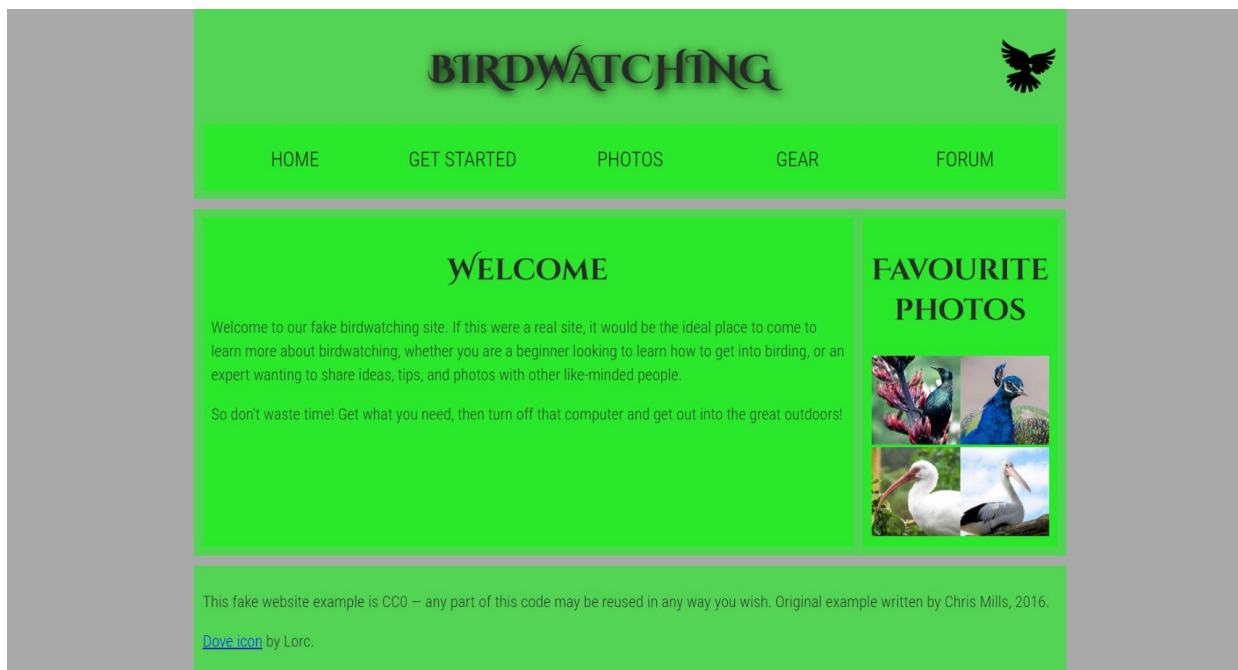
```
48      <footer>
49        <p>This fake website example is CC0 — any part of this code may be reused in any way you wish. Original
          example written by Chris Mills, 2016.</p>
50
51        <p><a href="http://game-icons.net/lorc/originals/dove.html">Dove icon</a> by Lorc.</p>
52      </footer>
53    </body>
54  </html>
55
```

Kết quả thực hiện:

Kết quả kiểm tra với Showing results for contents of text-input area - Nu Html Checker (w3.org)

3. Phụ lục

- **Github**: pzcuong/IE104-Internet-and-web-technology: IE104 - Internet và công nghệ Web (github.com)

HẾT