HTML: Basic Structure

```
<html>

    <head>

    </head>

    <body>

    </body>

</html>
```

HTML: Basic Structure

<html>

    <head>

    </head>

    <body>

    </body>

</html>

HTML: Basic Structure

```
<html>

    <head>

    </head>

    <body>

    </body>

</html>
```

Agenda

- Intro to HTML
- HTML: Basic Structure
- **HTML: Basic tags**
- HTML: Advanced tags
- HTML: Practice

HTML: Basic Tags

- What is HTML tag?

- HTML tags are the hidden *keywords* within a web page that define how your web browser must format and display the content.

- Most tags must have two parts, an opening and a closing part.

  - For example, <html> is the opening tag and </html> is the closing tag.

HTML: Basic Tags

- Basic tags

  - <html> ~ </html>: Indicates the beginning and the ending of a HTML document

  - <head> ~ </head>: Handles the metadata of a HTML documents

  - <body> ~ </body>: Has everything that has to do with the presentation of a HTML document

HTML: Basic Tags

<html>

    <head>

        (Metadata of the HTML document)

    </head>

    <body>

        (Presenation/functions of the document)

    </body>

</html>

HTML: Basic Tags - Title
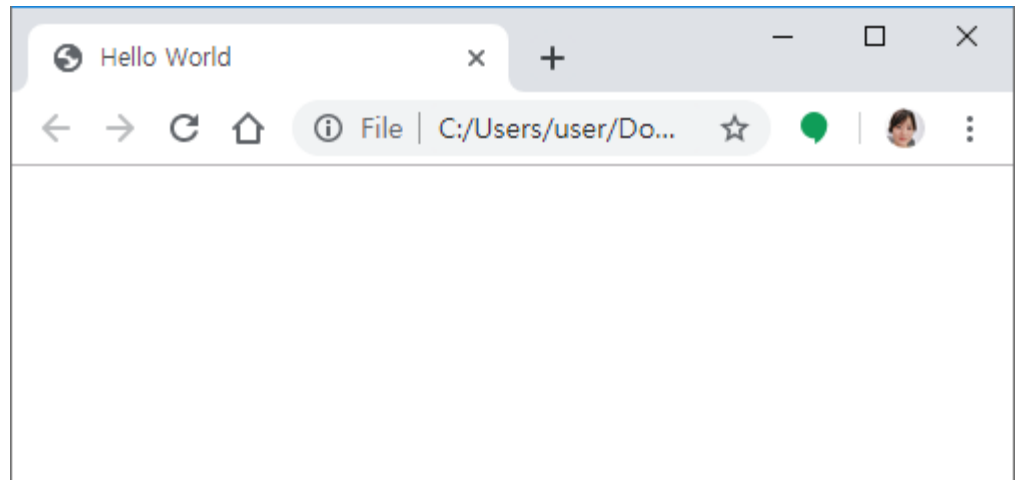
```
<html>

    <head>

        <title> Hello World </title>

    </head>

    <body>

    </body>

</html>
```
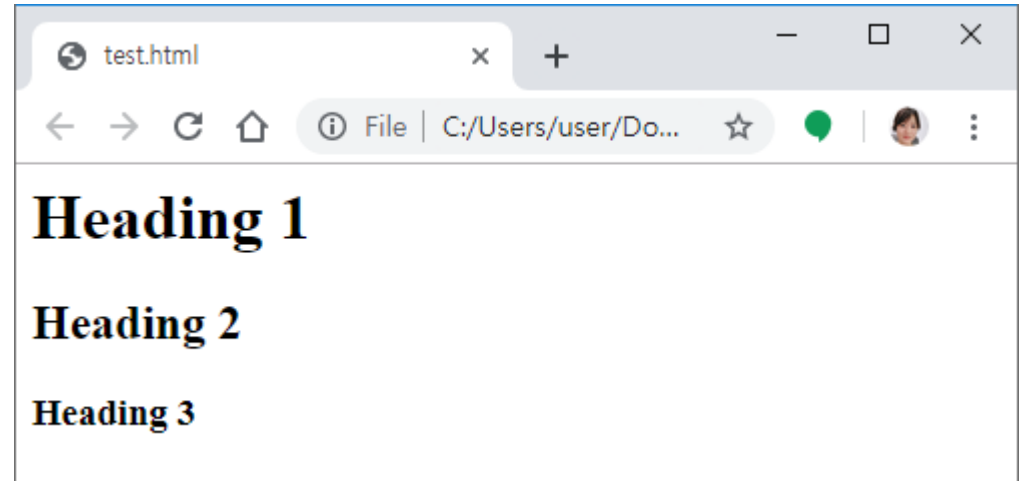
HTML: Basic Tags - Heading

<html>

    <head>

    </head>

    <body>

        <h1> Heading 1 </h1>

        <h2> Heading 2 </h2>

        <h3> Heading 3 </h3>

    </body>

</html>

HTML: Basic Tags - Font

: **Bolded text**

<html>

    <head>

    </head>

    <body>

        Hi. My name is Uran Oh .

    </body>

</html>

HTML: Basic Tags - Font

\<i>: *Italics*

```
<html>
    <head>
    </head>
    <body>
        Hi. My name is <i> Uran Oh </i>.
    </body>
</html>
```

HTML: Basic Tags - Font

<u>: underline

<html>

 <head>

 </head>

 <body>

  Hi. My name is <u> Uran Oh </u>.

 </body>

</html>

HTML: Basic Tags - Font

<del>: ~~cancel~~

```
<html>
    <head>
    </head>
    <body>
        안녕하세요. <del> 오유란 </del> 입니다.
    </body>
</html>
```
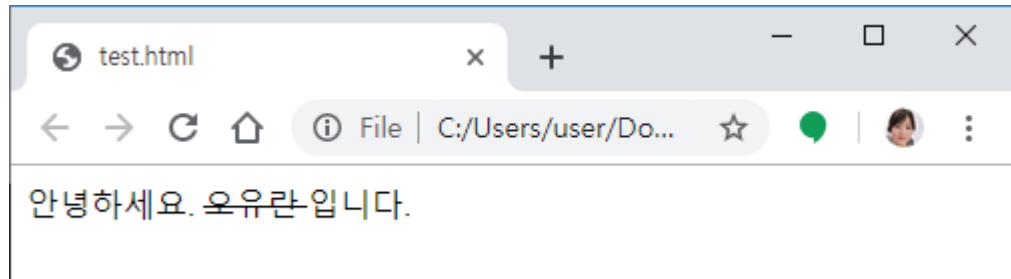
HTML: Basic Tags - Font

<mark>: ==highlight==<html>

    <head>

    </head>

    <body>

        Hi. My name is <mark> Uran Oh </mark>.

    </body>

</html>

HTML: Basic Tags - Font

\<sub\>: Text$_{subscript}$

\<html\>

    \<head\>

    \</head\>

    \<body\>

        Water is H\<sub\>2\</sub\>O.

    \</body\>

\</html\>

HTML: Basic Tags - Font

\<sub\>: Text^{superscript}

\<html\>

   \<head\>

   \</head\>

   \<body\>

      2\<sup\>3\</sup\> = 8

   \</body\>

\</html\>

HTML: Basic Tags - Font

<blockquote>: "quotes"

<html>

    <head>

    </head>

    <body>

        She said, <blockquote>Hi. My name is Uran Oh</blockquote>

    </body>

</html>

HTML: Basic Tags - Font

<marquee>: moving characters from right to left

<html>

    <head>

    </head>

    <body>

        <marquee>Hi. My name is Uran Oh</marquee>

    </body>

</html>

이화여자대학교
EWHA WOMANS UNIVERSITY

HTML: Basic Tags - Paragraph

\<p\>: Make a new paragraph

\<html\>

    \<head\>

    \</head\>

    \<body\>

        She said, \<p\>Hi. My name is Uran Oh

    \</body\>

\</html\>

HTML: Basic Tags - Paragraph

: Make a new line

<html>

   <head>

   </head>

   <body>

      She said,
Hi. My name is Uran Oh

   </body>

</html>

HTML: Basic Tags - Paragraph

 : Spaces between characters

```
<html>
    <head>
    </head>
    <body>
        Hi. &nbsp My name is Uran Oh
    </body>
</html>
```

HTML: Basic Tags - Paragraph

<p align>: Paragrach Alignment

```
<html>
    <head>
    </head>
    <body>
        <p align = "left"> Left </p>
        <p align = "right"> Right </p>
        <p align = "center"> Centered </p>
        <p align = "justify">  Justified </p>
    </body>
</html>
```

HTML: Basic Tags - Pa

<p style>: Pragraph Stype

```
<html>

    <head>

    </head>

    <body>

        <p style = "font-size:150%"> 폰트의 크기를 150% 확대</p>

        <p style = "background-color:lightgray"> 문단의 배경색을 옅은 회색으로 지정 </p>

        <p style = "color:red"> 글자색을 붉은 색으로 지정 </p>

        <p style = "padding-left:100px"> 왼쪽으로 100px만큼 여백을 줌</p>

        <p style = "padding-bottom:100px"> 아래쪽으로 100px만큼 여백을 줌</p>

        <p style = "font-family:궁서"> 폰트의 종류를 궁서체로 설정</p>

    </body>

</html>
```
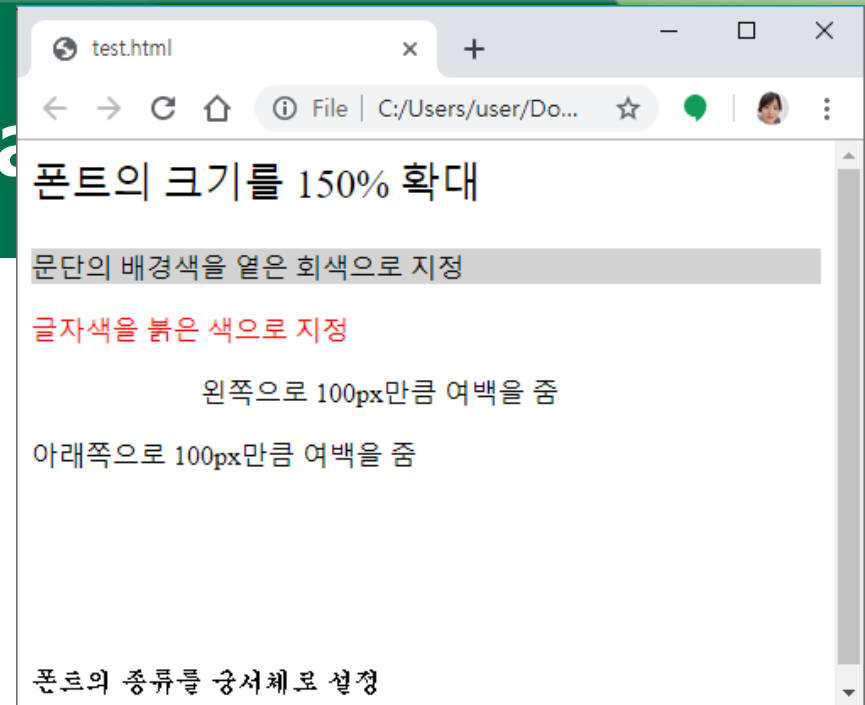
HTML: Basic Tags - List

: Ordered list

```
<html>

      <head>

      </head>

      <body>

             The most popular movies in 2019<p>

             <ol>

                          <li> Top 1</li>

                          <li> Top 2 </li>

                          <li> Top 3 </li>

             </ol>

             </p>

      </body>

</html>
```

HTML: Basic Tags - List

: Unordered list

<html>

    <head>

    </head>

    <body>

        Examples of programming languages<p>

                 C

                 C++

                 Python

        </p>

    </body>

</html>

HTML: Basic Tags - List

Using nested lists

```
<html>
    <head>
    </head>
    <body>
        <ol>
            <li> Item 1 </li>
                <ul>
                    <li> C</li>
                    <li> C++ </li>
                </ul>
            <li> Item 2 </li>
        </ol>
    </body>
</html>
```

HTML: Basic Tags - Image

Types of Images

- JPG(JPEG, Joint Photographic coding Experts Group)

  - Has a good compression rate

- GIF(Graphics Interchange Format)

  - Use 256 colors to reduce the size of an image

- PNG(Portable Network Graphics)

  - Use 256 colors + alpha (transparency)

  - Slightly heavier than JPG, but Less loss of image quality

HTML: Basic Tags - Image

Image Address

- Absolute address

  - <img src = "https://i.kinja-img.com/gawker-media/image/upload/s--UYWnBrHt--/c_scale,f_auto,fl_progressive,q_80,w_800/wmpvownqus8xwvylswsr.jpg">

  - <img src = "D:\users\images\cat.jpg">

HTML: Basic Tags - Image

Image Address

- Relative address

  - If the image file is located at the same directory as the html file

    - <img src = "cat.jpg">

  - Lower directory case

    - <img src = "images₩cat.jpg">

  - Upper directory case

    - <img src = "..₩cat.jpg">

HTML: Basic Tags - Image

Inserting an image

```
<html>
    <head>
    </head>
    <body>
        <img src = "images/cat.jpg">
    </body>
</html>
```

HTML: Basic Tags - Image

Setting the size: width & height

\<html>

\<head>

\</head>

\<body>

\<img src = "images/cat.jpg" width = "300" height = "300">

\</body>

\</html>

HTML: Basic Tags - Image

Image alignment

<html>

   <head>

   </head>

   <body>

      <img src = "images/cat.jpg" width = "300" height = "300" **align = "left"**>

   </body>

</html>

HTML: Basic Tags - Image

Image border

```
<html>
    <head>
    </head>
    <body>
        <img src = "images/cat.jpg" width = "300" height = "300" align = "left" border = "5">
    </body>
</html>
```

Agenda

- Intro to HTML
- HTML: Basic Structure
- HTML: Basic tags
- **HTML: Advanced tags**
- HTML: Practice

이화여자대학교
EWHA WOMANS UNIVERSITY

HTML: Advanced Tags - Table

- <table> : table tag

  - colspan, rowspan, border, bgcolor, width, height, cellpadding, cellspacing, align, valign

- <tr> : table row, makes a row

- <td> : table data, makes a cell

- <th> : table head, makes a title of a table

HTML: Advanced Tags - Table


```
<html>

    <head>

    </head>

    <body>

        <table border ="3">

        <tr> <th> 이름 </th> <th> 나이 </th> </tr>

        <tr> <th> 이화연 </th> <th> 20 </th> </tr>

        <tr> <th> 김이화 </th> <th> 19 </th> </tr>

        </table>

    </body>

</html>
```

HTML: Advanced Tags - Table

<html>

    <head>

    </head>

    <body>

        <table border ="3">

        <tr> **<td colspan = "2"> 학생 목록 </td>** </tr>

        <tr> <th> 이름 </th> <th> 나이 </th> </tr>

        <tr> <th> 이화연 </th> <th> 20 </th> </tr>

        <tr> <th> 김이화 </th> <th> 19 </th> </tr>

        </table>

    </body>

</html>

HTML: Advanced Tags - Table

```
<html>
    <head>
    </head>
    <body>
        <table border ="3">
        <tr> <td rowspan = "3"> 학생 목록 </td> </tr>
        <tr> <th> 이름 </th> <th> 나이 </th> </tr>
        <tr> <th> 이화연 </th> <th> 20 </th> </tr>
        <tr> <th> 김이화 </th> <th> 19 </th> </tr>
        </table>
    </body>
</html>
```
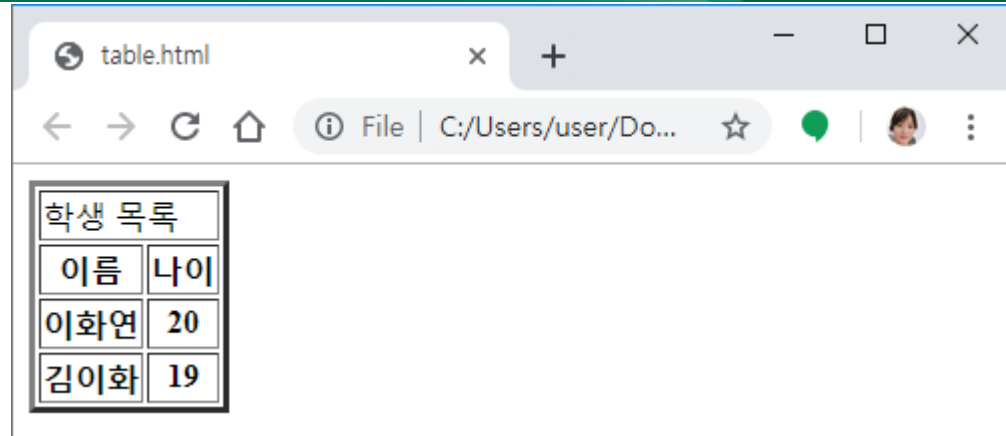
HTML: Advanced Tags - Table

```
<html>
    <head>
    </head>
    <body>
            <table cellspacing = "10" cellpadding = "10" border ="3" width="200" height = "200">
            <tr height = "20">
                <td width = "50"> East </td>
                <td width = "100"> West </td> </tr>
            <tr height = "50">
                <td> South </td>
                <td> North </td> </tr>
    </table>
    </body>
</html>
```
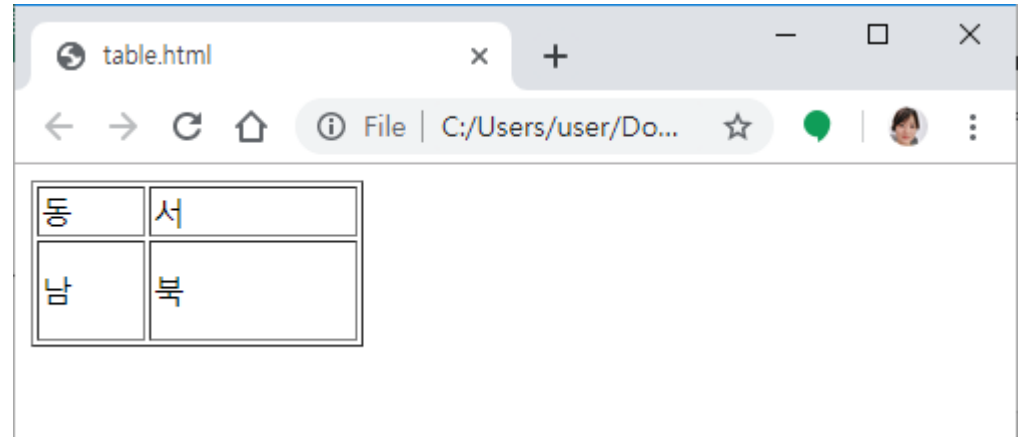
HTML: Advanced Tags - Table

```
<html>

    <head>

    </head>

    <body>

        <table cellspacing = "10" cellpadding = "10" border
="3" width="200" height = "200">

        </table>

    </body>

</html>
```

HTML: Advanced Tags - Table

<html>

<head>

</head>

<body>

<table border = "1">

      <tr height = "20">

    <td width = "50"> 동 </td> <td width = "100"> 서 </td> </tr>

      <tr height = "50">

    <td> 남 </td> <td> 북 </td> </tr>

</table>

</body>

</html>

HTML: Advanced Tags – Link

- <a>: Anchor, link

  - External link

     Uran Oh's homepage

  - Internal link

    name of the link

HTML: Advanced Tags - Link

```
<html>
    <head> </head>
    <body>
        <a href="#bottom" name="top">Look down</a>
        <p style = "height:1000px"> ..... </p>
        <a name="bottom" href="#top">:P</a>
    </body>
</html>
```

HTML: Advanced Tags - Frame
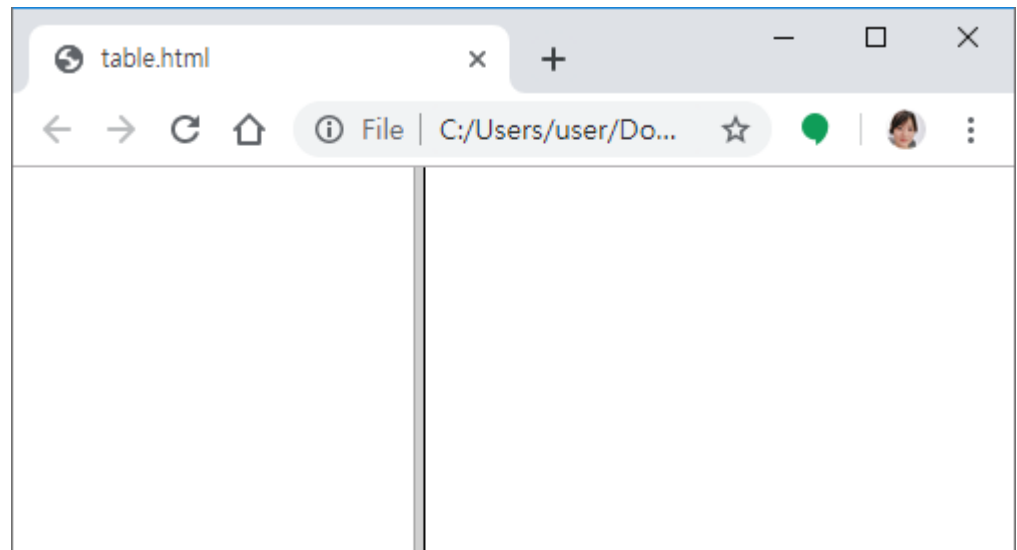
Frame: Indicating boundaries within a window of a web browser.

<head>

<frameset cols = "200, *">

<frame src ="">

<frame src = "">

</frameset>

</head>

HTML: Advanced Tags - Frame

Frame: Indicating boundaries within a window of a web browser.

<head>

    <frameset cols = "200, *">

    <frame src ="">

    <frame src = "">

    </frameset>

</head>
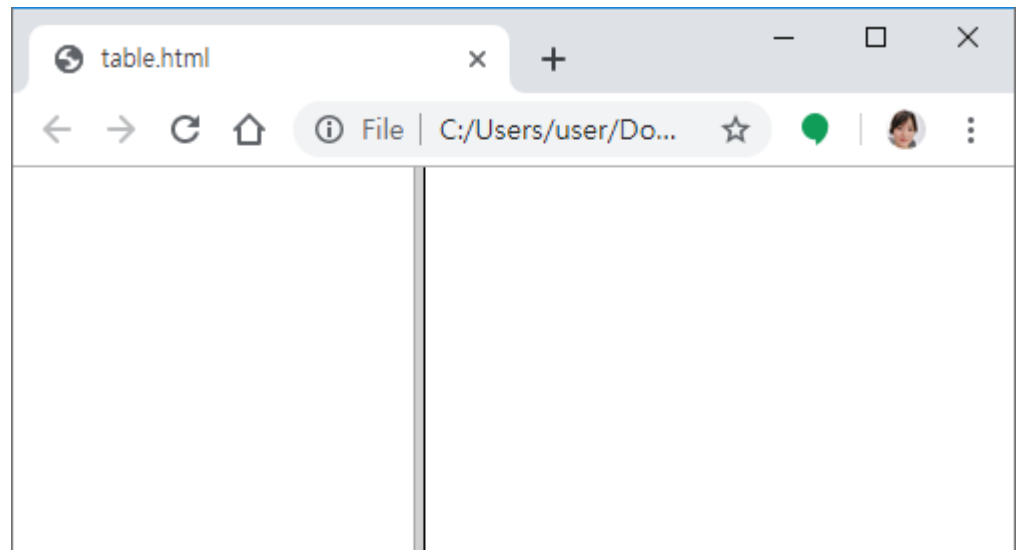
HTML: Advanced Tags - Form

Form: gets users' input with a dialog box

- method: specifies a communication method

  - Get: > 1kb data

  - Post: < 1kb data

- action: specifies where to send the collected input

<form method = "get" action = "confirm.php"> </form>

HTML: Advanced Tags - Input

<input>: Basic input type

- Text: Entering text

    - Size: textfield의 길이

    - Maxlength: 입력할 수 있는 최대 글자수

    - Value: textfield의 기본값

```
<html>
<body>
<form method="get" action="">
<input type = "text" name="my_id" size =
maxlength ="8" value="이름을 입력하세요">
</form>
</body>
</html>
```
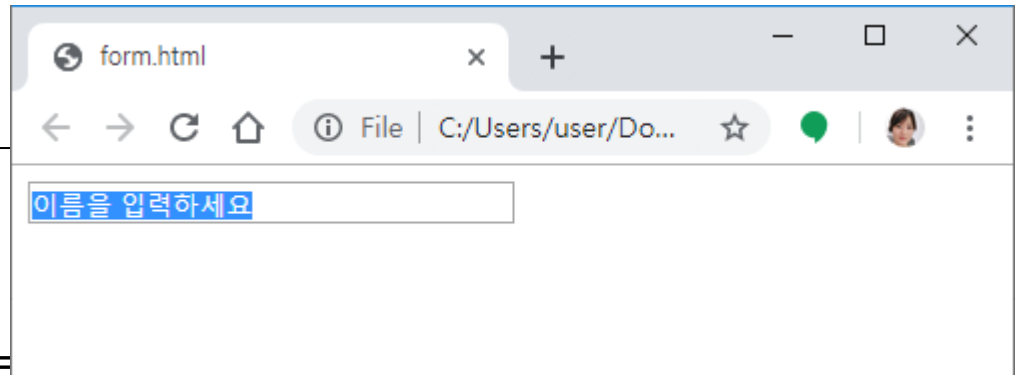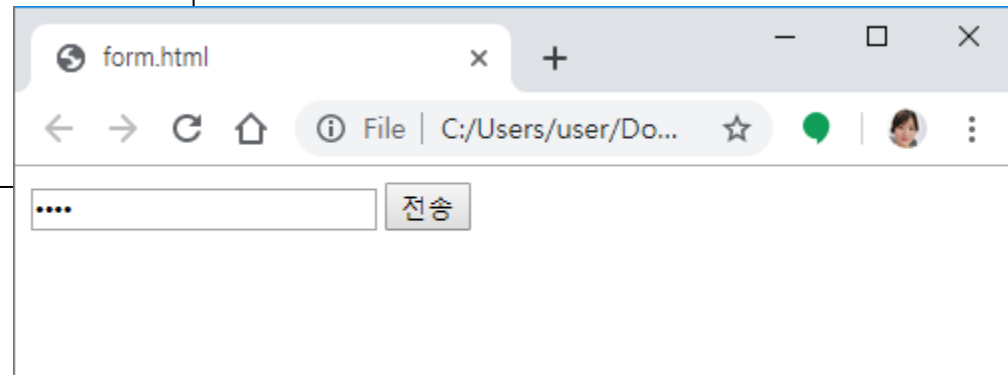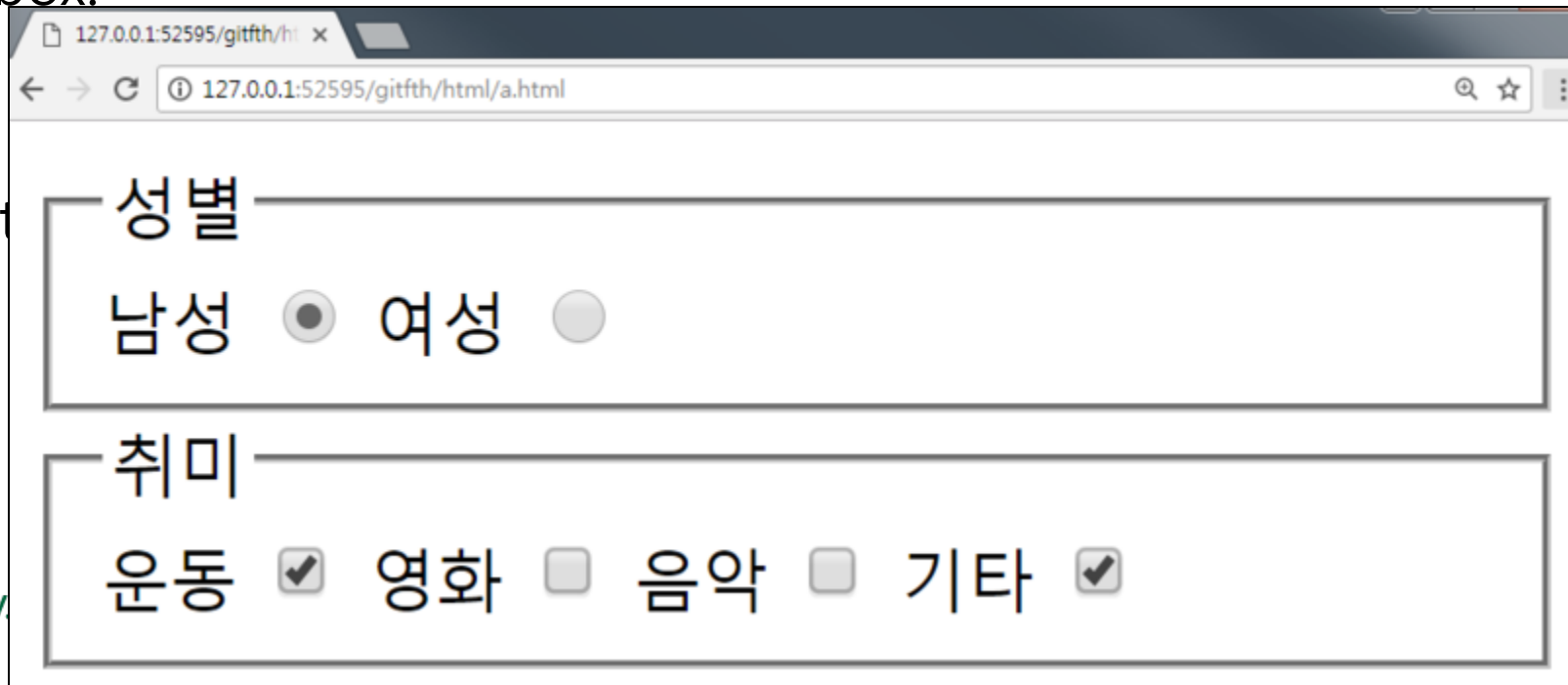
HTML: Advanced Tags - Input

\<input\>: Basic input type

- Password: The same as text but represented with '*' signs

```
<html>
<body>
<form method="get" action="">
<input type = "password"
name="my_password" size = "30" maxlength
="8" value="1234">
</form>
</body>
</html>
```
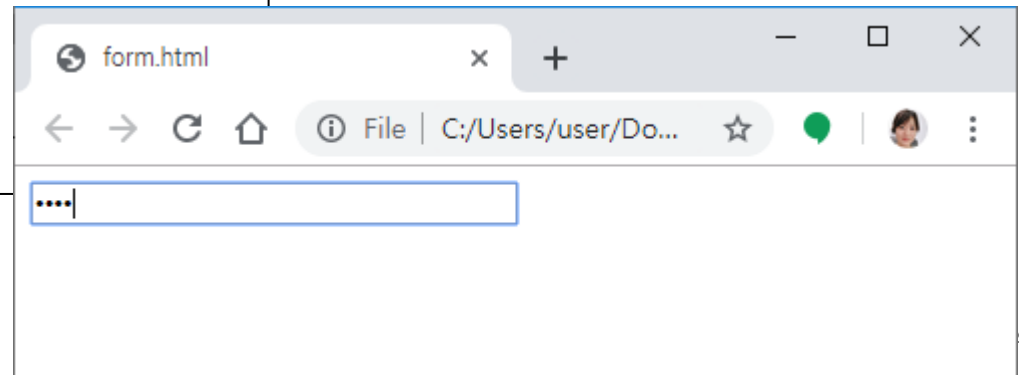
HTML: Advanced Tags - Input

<input>: Basic input type

- submit: Send the entered text

```
<html>
<body>
<form method="get" action="test.html">
<input type = "password"
name="my_password" value="1234">
<input type = "submit" value=전송>
</form>
</body>
</html>
```


TOGETHER.
TOMORROW.
EWHA

HTML: Advanced Tags - Input

<input>: Basic input type

• Image button: a button with an image

```
<html>
<body>
<form method="get" action="test.html">
<input type = "password" name="my_password" value="1234">
<input type = "image " src= "[Image Address]" height = " 20 " width = " 30">
</form>
</body>
</html>
```

HTML: Advanced Tags - Input

<input>: Basic input type
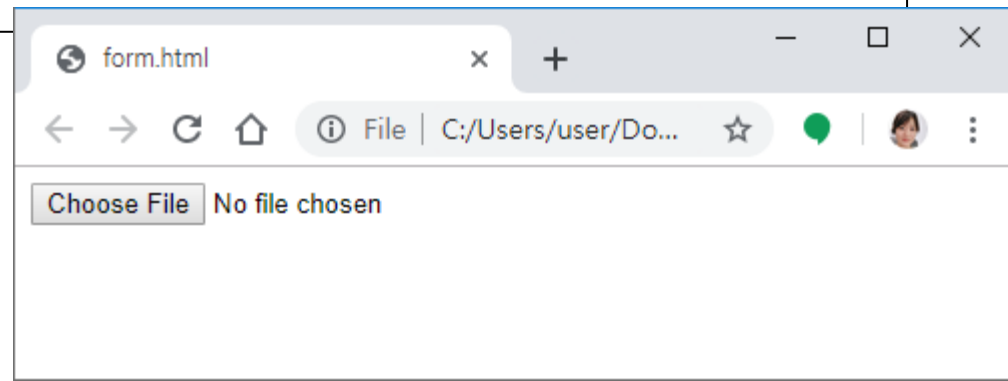
• Text: Entering text

• Password: Entering text but as '***"

• Checkbox:

• Radio:

• Submit

• Reset:

• Image

HTML: Advanced Tags - Input

\<input>: Basic input type

- file: creates a button to attach a file and creates a window for browsing for a file to be attached
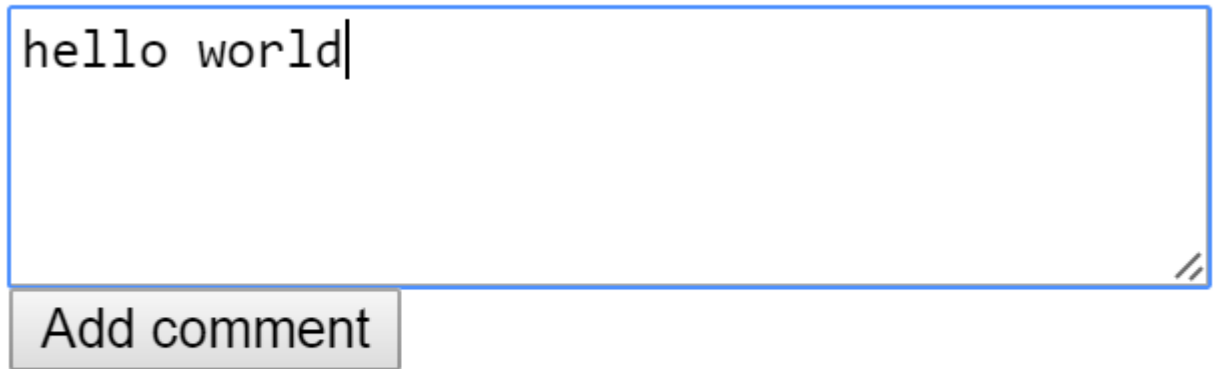
```
<html>
<body>
<form method="get" action="">
<input type = " file "  name = "  my_file  " >
</form>
</body>
</html>
```
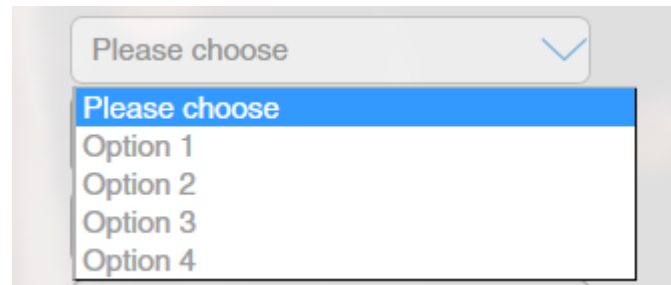
HTML: Advanced Tags – Input

\<input>: Basic input type

- Textarea

- Select box

- label

HTML: Advanced Tags - Multimedia

Multimedia: combination of more than 2 types of media

- Media: A medium that sends information

- Types of media: text, image, audio, video

- Types of multimedia:

    - Audio: MIDI, WAV, MP3

    - Video: MPEG(MPG), AVI

HTML: Advanced Tags – Multimedia

<embed> : embedding sound or video to a HTML document

Attributes:

- Height: Set height

- Width: Set width

- Autostart: Set the embedded multimedia to start automatically

- Loop: Set it to loop or not

- Hidden: Hide a player or not

<embed src = "BTS_tour.avi">

HTML: Advanced Tags - Multimedia

<html>

<head> </head>

<body>

<embed src = "wildlife.avi">

</body>

</html>

HTML: Advanced Tags - Multimedia

- Embedding a YouTube link

<iframe width="420" height="315"
src="https://www.youtube.com/embed/tgbNym
Z7vqY?autoplay=1">
</iframe>