

Internet Based Programming H.W

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H.W 1

1. Link to another site, an anchor, a page on the same site.

`Link to another site`

`Link to a page on the same site`

2. Link that dials a number, runs JavaScript, runs email client

`Dial a number`

`Run JavaScript`

`Open email client`

3. Open the link in a new tab/window

`Open link in a new tab/window`

H.W 2

1.Images

``

2.Image maps

``

`<map name="map">`

`<area shape="rect" coords="100,100,200,200" href="country1.html" alt="Country 1">`

`<area shape="circle" coords="300,200,50" href="country2.html" alt="Country 2">`

`</map>`

3.color

```
<div style="background-color: #ff0000;">
```

This is red.

```
</div>
```

```
<p style="color: blue;">
```

This is a paragraph with blue text color.

```
</p>
```

```
<div style="background-image: linear-gradient(to right, #ff0000, #00ff00);">
```

This div has a horizontal gradient from red to green.

```
</div>
```

H.W 3

1. All input type in HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>All Input Types</title>
```

```
</head>
```

```
<body>
```

```
<form>
```

```
<label for="hidden">Hidden:</label>
```

```
<input type="hidden" id="hidden" name="hidden" value="Hidden value">
```

<label for="tel">Telephone:</label>

<input type="tel" id="tel" name="tel" pattern="[0-9]{3}-[0-9]{3}-[0-9]{4}" placeholder="123-456-7890" required>

<label for="email">Email:</label>

<input type="email" id="email" name="email" placeholder="example@example.com" required>

<label for="number">Number:</label>

<input type="number" id="number" name="number" min="1" max="100" required>

<label for="range">Range:</label>

<input type="range" id="range" name="range" min="0" max="100" step="5">

<label for="search">Search:</label>

<input type="search" id="search" name="search" placeholder="Search term">

<label for="image">Image:</label>

<input type="image" id="image" name="image" src="image.png" alt="Submit">

<label for="week">Week:</label>

<input type="week" id="week" name="week">

<label for="url">URL:</label>

<input type="url" id="url" name="url" placeholder="https://www.example.com" required>

```
<label for="datetime-local">Date and Time:</label>
<input type="datetime-local" id="datetime-local" name="datetime-local">

<label for="month">Month:</label>
<input type="month" id="month" name="month">

<label for="time">Time:</label>
<input type="time" id="time" name="time">

<button type="submit">Submit</button>
</form>
</body>
</html>
```

2.Meta information

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <meta name="author" content="Author name">
  <meta name="description" content="Website description.">
  <meta name="generator" content="Generator tool.">
```

```
<meta name="keywords" content=" Appropriate keywords that reflect the content of The website. ">
```

```
<title>Website Title</title>
```

```
</head>
```

```
<body>
```

```
<!-- Rest of the HTML content -->
```

```
</body>
```

```
</html>
```

H.W 4

1.A form with inputs and buttons

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Form Action Example</title>
```

```
</head>
```

```
<body>
```

```
<h1>Form Action Example</h1>
```

```
<form action="process.php" method="get" target="_blank">
```

```
<h2>GET Method (Open in New Tab)</h2>
```

```
<label for="name">Name:</label>
```

```
<input type="text" id="name" name="name" required>
```

```
<label for="email">Email:</label>
```

```
<input type="email" id="email" name="email" required>
```

```
<button type="submit">Submit</button>
</form>

<form action="process.php" method="post" target="_self">
  <h2>POST Method (Same Tab)</h2>
  <label for="age">Age:</label>
  <input type="number" id="age" name="age" required>

  <label for="gender">Gender:</label>
  <select id="gender" name="gender" required>
    <option value="male">Male</option>
    <option value="female">Female</option>
    <option value="other">Other</option>
  </select>
  <button type="submit">Submit</button>
</form>
</body>
</html>
```

2.Canvas application in HTML5

```
<!DOCTYPE html>
<html>
<head>
  <title>Canvas Application</title>
  <style>
```

```
    canvas {
      border: 1px solid black;
    }
  </style>
</head>
<body>
  <h1>Canvas Application</h1>

  <canvas id="myCanvas" width="400" height="200"></canvas>

  <script>
    // Get the canvas element
    const canvas = document.getElementById('myCanvas');
    const context = canvas.getContext('2d');

    // Set initial position and color
    let x = 200;
    let y = 100;
    let color = 'blue';

    // Draw initial shape on canvas
    drawShape();

    // Function to draw a shape on the canvas
    function drawShape() {
      context.clearRect(0, 0, canvas.width, canvas.height);
      context.fillStyle = color;
```

```
context.fillRect(x, y, 50, 50);  
}
```

```
// Event listener for arrow key press
```

```
document.addEventListener('keydown', function(event) {  
  const key = event.key;
```

```
  // Change position and color based on arrow key
```

```
  if (key === 'ArrowUp') {
```

```
    y -= 10;
```

```
  } else if (key === 'ArrowDown') {
```

```
    y += 10;
```

```
  } else if (key === 'ArrowLeft') {
```

```
    x -= 10;
```

```
  } else if (key === 'ArrowRight') {
```

```
    x += 10;
```

```
  } else if (key === 'c') {
```

```
    color = getRandomColor();
```

```
  }
```

```
  // Redraw the shape on canvas
```

```
  drawShape();
```

```
});
```

```
// Function to generate a random color
```



```
function getRandomColor() {  
  const letters = '0123456789ABCDEF';  
  let color = '#';  
  for (let i = 0; i < 6; i++) {  
    color += letters[Math.floor(Math.random() * 16)];  
  }  
  return color;  
}  
</script>  
</body>  
</html>
```