IP

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A16

Q1) Explain the process of inserting image in an HTML document.

Ans 1) First Select the image you want to upload. make Sure that it's Saved on your device or hosted online.

2) Use the '<img>' tag to insert the image.
Syntax: <img Src = "image-Source-url" alt = "description">

3) The '<img>' tag doesn't require a closing tag because it's a Self closing tag.

4) The 'alt' attribute is used as an alternate to the image.

Q.2) Explain the difference between <P> and element.

Ans

<P>	
1) Paragraph-level element for text content.	1) Division or container element for grouping content.
2) Adds vertical Space and margin.	2) None (block-level element).
3) Typically used for organizing and formatting text into paragraph	3) Used for creating Sections, grouping elements, and applying CSS styles.

Should contain text content only.	Often contains other elements

Q.3] Create a HTML page which will divide a page in two horizontal fragments using frameset tag, each frame should have different background color & different headings.

Ans

```
<html>
 <head>
   <title> Two Horizontal fragments with frameset
          </title>
 </head>
 <frameset rows = "50%, 50%">
   <frame src = " left.html" name = "left">
   <frame src = "right.html" name = "right">
 </frameset>
 </html>
```

• left.html

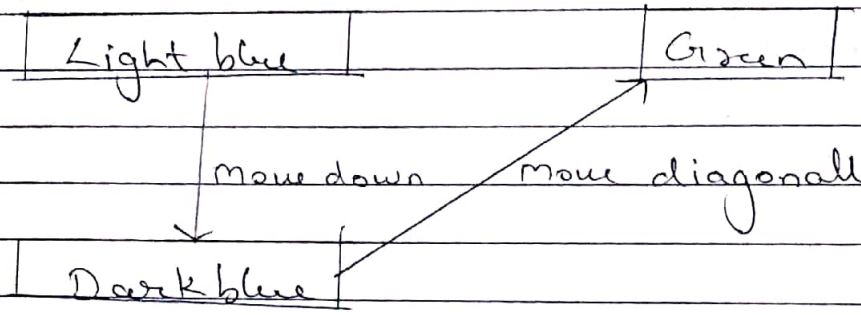
```
<html>
<head>
    <title> left fragment </title>
</head>
```

```
<body Style="background-color: red;">
    <h1> Left Fragment </h1>
    <p> This is left fragment </p>
</body>
</html>
```

- right.html

```
<html>
<head>
    <title> Right Fragment </title>
</head>
<body Style="background-color: blue;">
    <h1> Right fragment </h1>
    <p> This is right fragment </p>
</body>
</html>
```

Q.4] Write an HTML-CSS code for showing following animation (Observe the animation mentio



Ans index.html

```
<html lang="en">
<head>
    <title> Color and move </title>
    <link rel="Stylesheet" href="Style.css">
</head>
<body>
    <div class="box"></div>
</body>
</html>
```

Style.css

```
body{
    margin: 0;
    overflow: hidden;
}
```

```
.box {
    width : 100px;
    height : 100px;
    background-color : lightblue;
    position : absolute;
    animation: moveDiagonal 4s linear infinite
                alternate;
}

@keyframes moveDiagonal {

0% {
    background-color: lightblue;
    left : 0;
    top : 0;
}

25% {
    background-color : darkblue;
    top : 50%;
    left : 0;
}

50% {
    background-color : green;
    top : 0;
    left : 50%;
}
}
```

q.5) write an HTML5 code to embedded audio & video in web page.

Ans.

```
<html lang="en">
<head>
<title> Embedded audio & video </title>
</head>
<body>
    <h2> Embedded Audio </h2>
    <audio controls>
        <source src="audio.mp3" type="audio/mpeg">
    </audio>

    <h2> Embedded Video </h2>
    <video controls width="480" height="270">
        <source src="video.mp4" type="video/mp4">
    </video>
</body>
</html>
```

Ans 6] (a)

```
<!Doctype html>
<html>
<head>
<title> Basic html table </title>
<style>

table, th, td {
        border : 1px solid black;
        padding : 5px.
    }
    th {
        text-align : center;
    }
</style>
</head>
<body>
<table>

<tr>
    <th> Level 1 </th>
    <th> Level 2 </th>
    <th> Level 3 </th>
    <th> Info </th>
    <th> Name </th>
</tr>
```

```
<tr>
  <td rowspan="6"> System </td>
  <td rowSpan="4"> System Apps </td>
  <td rowSpan="3"> System Fav </td>
  <td> App test </td>
  <td> foo </td>
 </tr>

<tr>
   <td> App memory </td>
   <td> foo </td>
</tr>

<tr>
   <td> App test </td>
   <td> bar </td>
</tr>

<tr>
   <td> System Memory </td>
   <td> App test </td>
   <td> bar </td>
</tr>

<tr>
   <td rowspan="2"> System memory </td>
  <td rowspan="2"> memory test </td>
  <td> memory func </td>
  <td> foo </td>
```

```
</tr>

<tr>
    <td> Apes test </td>
    <td> bar </td>

</tr>

</table>
</body>
</html>
```

(b)

```
<!Doctype html>
<html>
<head>
<title> Elements Table </title>
< style>

table, th, td {
        border : 1px;
        border-collapse : Collapse;
        padding : 5px;
    }

th {
    background-color : lightgreen;
    text-align : center;
}
```

```
tr: nth-child(odd){
    background-color: white;
}
tr: nth-child(even){
    background-color: lightblue;
}
</Style>
</head>
<body>
<table>
    <tr>
    <th> ~~Name~~ No. </th>
    <th> Name </th>
    <th> Symbol </th>
    <th> Atomic weight </th>

<tr>
    <td> 1 </td>
    <td> Hydrogen </td>
    <td> ~~1.008~~ H </td>
    <td> 1.008 </td>
</tr>
<tr>
    <td> 2 </td>
    <td> Helium </td>
    <td> He </td>
    <td> 4.003 </td>
</tr>
```

```
<tr>
    <td> 3 </td>
    <td> Lithium</td>
    <td> Li</td>
    <td> 6.941 </td>
</tr>
</table>
</body>
</html>
```

q.7)

Ans

```
<!DOCTYPE html>
<html>
 <head>
      <title> Document </title>
 </head>
 <body>
 <form>
       <div>
       <feildset>
       <legend > Regform</legend>

  <div>
   <label ~~for="~~> Name: </label>
   <input ~~type~~="text" name ="Name"
     id="Name" required placeholder =
     "Enter Name here">
  </div>

  <div>
  <label> Password: </label>
   <input type = "password" ~~id=~~ required
     Placeholder = "Enter Password here">
  </div>
```

```
<div>
 <label> Email: </label>
 <input type="email" required placeholder=
 </div>                    "Enter Email here" >

<div>
<label> Date: </label>
<input type="date">
</div>

<div>
<label> Phone no. </label>
<input type="tel" >
</div>

<div>
<label > Select file: </label>
<input type="file" >
</div>

<div>
<label> Gender </label>
<input type: "radio" name="gender" value="male">
 <label > male </label>

<input type="radio" value="female">
<label > female </label>
 </div>
```

```
<div>
<label> language </label>
<input type = "checkbox" name = " language" value = "hindi">
<label> hindi </label>.

<input type = " checkbox name = "language" value = "English">
<label> English </label>.

</div>

<div>
<label> Course : </label>
<select> name =
  <option value = "CS" > CS </option>.
  <option value = "Extc > Extc </option>.
</select>
</div>

<div>
  <label> comment </label>
  <textarea rows = 4" cols = "50" >

  </textarea>
</div>
```

```
<div>
    <input type="reset" value="Reset">
    <input type="Submit" value="Register">
</div>

</fieldset>
</div>
</form>

</body>
</html>
```

Ans 9]

```
<html>
<head>
<title> Form Validation </form>
</head>
<body>
    <h1> Registration form</h1>
    <form method="post">
    <label for="username">Username </label>
    <input type="text" name="username"
        required minlength="10">
    <br>

    <label for="password"> Password </label>
    <input type="password" name="password"
    required minlength="8" pattern="^(?=.*[a-z])
```

(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*?&])
[A-Za-z\d@$!%*?&]{8,}$"/>

<label for="confirm">Confirm Password:</label>
<input type="password" id="confirm" name=
"confirm" required minlength="8"

pattern="^(?=.*[a-z])(?=.*\d)(?=.*[@$!%*?&])
[A-Za-z\d@$!%*?&]{8,}$"/>

<input type="submit" value="Register">

</form>
</body>
</html>

Ans 19

```
<?xml version="1.0" encoding="UTF-8"?>

<employee>
    <name> John Doe </name>
    <address> Thane </address>
    <gender> Male </gender>
    <company> ABC Corporation </company>
</employee>
```

Ans 20

```
<?php

function reverseNumber ($number) {

    $reversed = 0;

    while ($number > 0) {

        $digit = $number % 10;
        $reversed = $reversed * 10 + $digit;
        $number = (int) ($number / 10);
    }

    return $reversed;
}

$number = 12345;
$reversedNumber = reverseNumber($number);
echo "Reversed Number: $reversedNumber";
?>
```

O/P: Reversed number = 54321.

Ans10)

```
<!Doctype html>
<html>
<head>
    <title> biggest of 3 </title>
</head>
<body>
    <label for="num_1"> Number1: </label>
    <input type="text" id="num1"> <br>

<label for="num2"> Number 2: </label>
<input type="text" id="num_2"> <br>

<label for="num_3"> Number3: </label>
<input type="text" id="num3"> <br>

<button onclick="find Biggest()"> Find Biggest
                                  </button>
<P> Result: <Span id="result"></Span> </P>
<Script>

function find Biggest() {

Const number num_1 = parsefloat (document.get
{elementById("num_1").value);

const num_2 = parsefloat (document.get ElementById
("num_2").value);
Const num_3 = parsefloat (document.get ElementById
("num_3").value);
```

```
Const biggest = math.max (number1, number2, number3);

document.getElementById ("result").textContent
  = "The biggest number is:" + biggest;

</Script>
</body>
</html>
```

Ans:]

```
<!Doctype html>
<html>
<head>
<title> Image Hover </title>
<Style>
# image {
        width: 200px;
        height: height: 200px;
}
</Style>
</head>
<body>
  <img id = "image" Src = "image1.jpg"
  onmouseover = "changeImage()"
  onmouseout = "restoreImage()" />
  <Script>
    function changeImage(){
  document.getElementById('image').Src
                = "image.jpg";
```

```
    }
function restoreImage() {
    document.getElementById('image').Src
    = 'image1.jpg';
}
</Script>
</body>
</html>
```

Ans 12)

```
<!Doctype html>
<html>
<head>
<title> factorial </title>
</head>
<body>
    <form>
        <input type="number" id="num">
        <input type="Submit Onclick="fact()">
    </form>
<Script>
    function fact() {
    var n = document.getElementById("num").value;
    var f=1;
for(i=1; i<=n; i++)
{
    f=f*i;
}
  document.write(f);
}
```

```
</Script>
</body>
</html>
```

Ans13]

```
function getMonthFromDate(dateString) {

  const date = new Date(dateString);
  const monthIndex = date.getMonth();

  const monthNames = [
    "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug",
    "Sept", "Oct", "Nov", "Dec"
  ];

  return monthNames[monthIndex];
}

const date = "2023-09-02";
const monthName = getMonthNameFromDate(date);
console.log(monthName);
```

Ans 14]

```
<Doctype html>
<html>
<head>
    <title> Change Attribute value </title>
</head>

<body>
    <p id= "my-para"> This is paragraph with
    an attribute. </p>

<button onclick= "changeAttribute()"> Change Attribute
    value </button>.

<Script>

    function changeAttribute() {

        var para = document.getElementById("my-para");
    paragraph.SetAttribute("data-custom", "New
    Attribute value");

</Script>
</body>
</html>
```

Ans15

```
<!Doctype html>
<html>
<head>
<title> Sort Array </title>
<Script>

function SortArray() {

var array = document.getElementById("array").
                                        value;
var numbers = array.Split(",").map(Number);

numbers.Sort();
var list = document.createElement("ol");
for( var i=0; i< numbers.length; i++) {

  var li = document.createElement("li");
  li.textcontent = numbers[i];
} list.appendChild(li);

document.getElementById("output").appendChild(list);
</Script>
</head>
<body>
<input type="text" id="array" placeholder="Enter
numbers Separated by commas">.
<button onclick="SortArray()"> Sortmsay </button>
<div id="output"></div>
</body></html>
```

Ques 16]

```
<!DOCTYPE html>
<html>
<head>
<title> Digital Clock </title>
<Script>

function currentTime() {

    var now = new Date();
    var hours = now.getHours();
    var minutes = now.getMinutes();
    var Seconds = now.getSeconds();

hours = (hours < 10) ? "0" + hours : hours;
minutes = (minutes < 10) ? "0" + minutes : minutes;
Seconds = (Second < 10) ? "0" + Seconds : Seconds;
document.getElementById("clock").innerHTML =
    hours + ":" + minutes + ":" + Seconds;
}

SetInterval(currentTime, 1000);
</Script>
</head>
<body>
<div id="clock"></div>
</body>
</html>
```

Ans17>

```
<!Doctype html>
<html>
<head>
<title> Change Advertisement </title>
<Script>

function changeAdvertisement() {
        var now = new Date();
var minutesSinceLastchange = (now - lastchange).
                                getminutes();
if (minutesSinceLastChange > 5) {

    var imageURL = "https://example.com/images/
advertisement-" + math.floor(math.random() * 10)
+ ".jpg";

document.getElementById("advertisement").Src
                        = imageUrl;
lastChange = now;
}
}

    SetInterval(changeAdvertisement, 300000);
</Script>
</head>
<body>
<img id = "advertisement" Src = "https://example.com/
        images/advertisement-1.jpg">
</body>
</html>
```

ans 8]

```
<!Doctype html>
<html>
<head>
<title> Placement Form </title>
<Script>
function validateEmail (email) {

var regex= /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
return regex.test(email);
}

function validateRequiredFields(){
    var requiredFields =["Name", "Email id", "Contact_no", "DOB", "Percentage"];

for (var i=0; i< requiredFields.length ; i++) {
  var field = document.getElementById(requiredFiles[i]);
if (field.value == "") {
    alert (requiredFields[i] + "is required.");
    return false;
}
}

return true;
}
```

```
function validatePercentage() {
    var percentage = document.getElementById
("Percentage").value;

if (percentage < 60) {
    alert("Percentage must >= 60.");
    return false;
}

    return true;
}
</Script>
</Head>
<body>
<h1> Form </h1>
<form onSubmit="return validateRequiredFields()
    && validatePercentage()">
  <div>
    <label for="Name"> Name: </label>
    <input type="text" id="Name" required>
  </div>

<div>
  < label for="Email"> Email_id: </label>
  <input type="email" id="Email" required>
</div>
```

```
<div>
  <label for="contact"> Contact no: </label>
  <input type="text" id="contact" required>
</div>

<div>
  <label for="DOB"> DOB: </label>
  <input type="date" id="DOB" required>
</div>

<div>
  <label for="Percentage"> Percentage : </label>
  <input type="number" id="Percentage" required>
</div>

<div>
  <label for="Branch"> Branch: </label>
  <input type="radio" id="CSE" name="Branch"
  value="CSE"> SEE.
  <input type="radio" id="IT" name="Branch"
  value="IT"> IT.
</div>
<div>
  <label for="Technology"> Technology: </label>
<input type="checkbox" id="Web-Dev" name="Tech"
  value="web-Dev"> web Development.
<input type="checkbox" id="DataScience" name=
  "Technology" value="Data Science"> Data Science.
</div>
```

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

Ans21

```
<?xml version="1.0"?>
<Class>
   <Book bookid = "5350192956">
      <BookName> XSLT Programmer's Reference
                 </BookName>
      <AuthorName> michael kay </AuthorName>
      <Publisher> Wrox </Publisher>
      <Price> $40 </Price>
      <Edition> 4th </Edition>
   </Book>

<Book bookid = "3741122298">
   <BookName> Head first Java </BookName>
   <AuthorName> Kathy Sierra </AuthorName>
   <Publisher> O'relly </Publisher>
   <Price> $19 </Price>
   <Edition> 1st </Edition>
   </Book>

<Book bookid= "9987436700">
   <BookName> SQL The Complete Reference
              </BookName>
   <AuthorName> James R. Groff </AuthorName>
   <Publisher> mcGraw-Hill </Publisher>
   <Price> $45 </Price>
   <Edition> 3rd </Edition>
</Book>
```

Ans22

```
<?php
function palindrome ($str){
    $str = strtolower (str_replace (" ", "", $str));
    $reversed = strrev ($str);

    if ($str === $reversed) {
        return true;
    }
    else {
        return false;
    }
}

$inputString = "Hello"
$result = isPalindrome ($inputString);

if ($result) {
    echo "$inputString is a palindrome.";
}
else{
    echo "$inputString is not a palindrome.";
}
?>
```

O/P:

Hello is not a palindrome.

Ans23]

```
<!Doctype Cars [
  <!Element cars (car+)>
  <!Element car (make, model, year, color,
                 engine, doors)>
<!Element make (#PCDATA)>
<!Element model (#PCDATA)>
<!Element year (#PCDATA)>
<!Element color (#PCDATA)>
<!Element engine (no_of_cylinders, fuel_type)>
<!Element no_of_cylinders (#PCDATA)>
<!Element fuel_type (#PCDATA)>
]>
```