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GROUP OF INSTITUTIONS

ISO 9001 : 2015 Certified



NIELIT (PRACTICAL ASSIGNMENT)

Web Designing and Publishing (M2-R5)

Q.1 Create an HTML file (e.g., first_page.html) that specifies a page containing:

- One heading
- Two paragraphs of text
  (You may use any text of your choice.)

SOLUTION:-

```
<!DOCTYPE html>
<html>
<head>
    <title>Heading and Paragraph Example</title>
</head>
<body>
    <h1>Welcome to My Website</h1>

    <p>This is the first paragraph of my web page.</p>
    <p>This is the second paragraph of my web page.</p>
</body>
</html>
```

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Q.2 Write an HTML program to design a form that allows entry of personal data.

Hint: Use text fields, password field, email field, lists, radio buttons, checkboxes, and a submit button.

SOLUTION:-

```
<html>
<head>
    <title>Personal Information Form</title>
</head>
<body>
    <form>
        Name: <input type="text"><br><br>
        Password: <input type="password"><br><br>
        Email: <input type="email"><br><br>

        Gender:
        <input type="radio" name="g"> Male
        <input type="radio" name="g"> Female
        <br><br>

        Hobbies:
        <input type="checkbox"> Reading
        <input type="checkbox"> Sports
        <br><br>

        Country:
        <select>
            <option>India</option>
            <option>USA</option>
        </select>
        <br><br>

        <input type="submit">
    </form>
</body>
</html>
```

Q.3 Write HTML code to generate the following output:

1. Coffee
2. Tea
3. Black Tea
4. Green Tea
5. Milk

SOLUTION:-

```
<html>
<head>
    <title>Beverage List</title>
</head>
<body>
    <ol>
        <li>Coffee</li>
        <li>Tea</li>
        <li>Black Tea</li>
        <li>Green Tea</li>
        <li>Milk</li>
    </ol>
</body>
</html>
```

Q.4 Write HTML code to demonstrate the use of the Anchor (<a>) tag for the following:

a) Creating a web link that opens in a new window

b) Creating a web link that opens in the same window

c) Creating a reference within the same HTML document

d) Creating a reference to an image

e) Making an image a hyperlink to display a second image

SOLUTION:-

Next page

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```html
<html>
<head>
    <title>Anchor Tag Demonstration</title>
</head>
<body>
    <a href="https://www.google.com" target="_blank">Open in New Window</a><br><br>
    <a href="https://www.google.com">Open in Same Window</a><br><br>

    <a href="#bottom">Go to Bottom</a><br><br>

    <img src="img1.jpg" width="100"><br><br>

    <a href="img2.jpg">
        <img src="img1.jpg" width="100">
    </a>

    <h3 id="bottom">Bottom of Page</h3>
</body>
</html>
```

Q.5 Create an HTML page with the following specifications:

- Title should be about *My City*
- Place your city name at the top of the page in large blue text
- Add names of landmarks in your city, each in a different color, style, and typeface
- One landmark (your college name) should be blinking
- Add scrolling text with a message of your choice

SOLUTION:-

```html
<html>
<head>
    <title>My City Information</title>
</head>
<body>
    <h1 style="color: blue; font-size: 40px;">My City Delhi</h1>

    <p style="color: red;">India Gate</p>
    <p style="color: green; font-style: italic;">Red Fort</p>

    <blink>ABC College</blink>

    <marquee>Welcome to my city</marquee>
</body>
</html>
```

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Q.6 Create an HTML page with seven separate lines, each in a different color.
Each line should mention the color used in its text.

SOLUTION:-

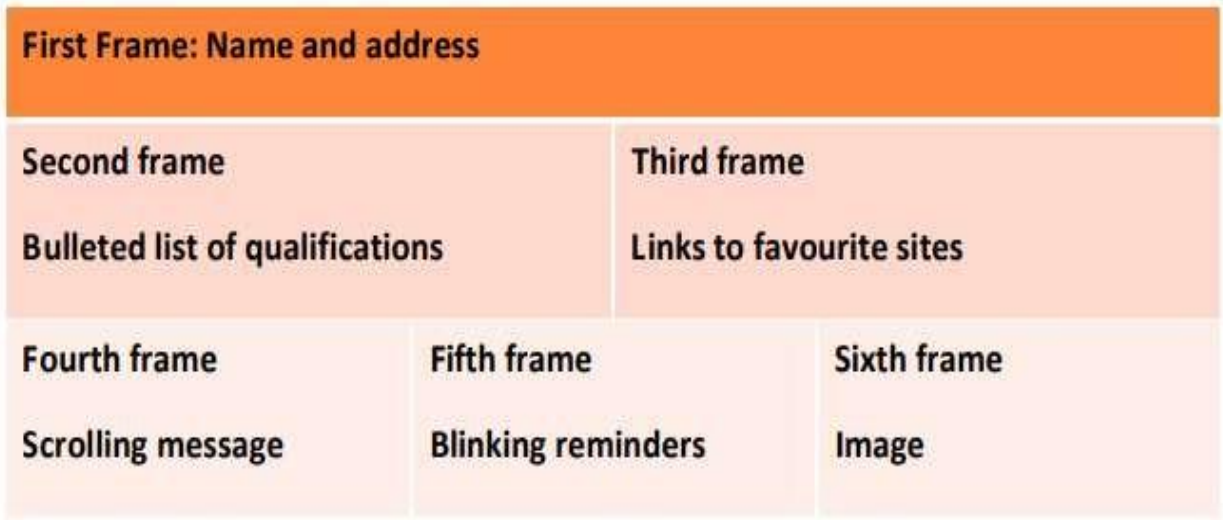
```
<html>
<head>
    <title>Different Colors Text</title>
</head>
<body>
    <p style="color:red;">This is Red color</p>
    <p style="color:blue;">This is Blue color</p>
    <p style="color:green;">This is Green color</p>
    <p style="color:orange;">This is Orange color</p>
    <p style="color:purple;">This is Purple color</p>
    <p style="color:brown;">This is Brown color</p>
    <p style="color:black;">This is Black color</p>
</body>
</html>
```

Q.7 Create an HTML page containing the following polynomial expression:
$a_0 + a_1x + a_2x^2 + a_3x^3$

SOLUTION:-

```
<html>
<head>
    <title>Polynomial Expression</title>
</head>
<body>
    <p>
        a<sub>0</sub> +
        a<sub>1</sub>x +
        a<sub>2</sub>x<sup>2</sup> +
        a<sub>3</sub>x<sup>3</sup>
    </p>
</body>
</html>
```

Q.8 Write HTML code to generate the given output.



SOLUTION:-

```
<html>
<head>
    <title>Frame Table</title>
</head>
<body>
<table border="1" width="80%" align="center" cellpadding="10" cellspacing="0">
    <!-- First Frame -->
    <tr bgcolor="orange">
        <td colspan="3" align="center">
            <b>First Frame: Name and address</b>
        </td>
    </tr>

    <!-- Second & Third Frame -->
    <tr>
        <td width="33%">
            <b>Second frame</b><br>
            Bulleted list of qualifications
        </td>

        <td colspan="2" width="67%">
            <b>Third frame</b><br>
            Links to favourite sites
        </td>
    </tr>

    <!-- Fourth, Fifth & Sixth Frame -->
    <tr>
        <td>
            <b>Fourth frame</b><br>
            Scrolling message
        </td>

        <td>
            <b>Fifth frame</b><br>
            Blinking reminders
        </td>

        <td>
            <b>Sixth frame</b><br>
            Image
        </td>
    </tr>
</table>
</body>
```

Q.9 Create an HTML page with a red background and a large blinking message “Warning”. Add scrolling text “Read the message” below it.

SOLUTION:-

```
<html>
<head>
    <title>Warning Message</title>
</head>
<body bgcolor="red">

    <center>
        <blink><font size="7" color="white">WARNING</font></blink>
        <br><br>
        <marquee><font color="white">Read the message</font></marquee>
    </center>

</body>
</html>
```

Q.10 Write an HTML page to print Hello World in bold and italic format.

SOLUTION:-

```
<html>
<head>
    <title>Hello World Formatting</title>
</head>
<body>
    <b><i>Hello World</i></b>
</body>
</html>
```

Q.11 Design an HTML page to display a picture.
The picture should be removed from the screen when the user clicks on it.

SOLUTION:-

```
<html>
<head>
    <title>Image Click Remove</title>
</head>
<body>
    <img src="img.jpg" onclick="this.style.display='none'">
</body>
</html>
```

Q.12 Create an HTML document with JavaScript code that includes three text boxes for Principal, Rate of Interest, and Duration (years), and an OK button.
When clicked, a message box should display the Simple Interest.

SOLUTION:-

```
<html>
<head>
    <title>Simple Interest Calculator</title>
</head>
<body>
    <input id="p" placeholder="Principal"><br><br>
    <input id="r" placeholder="Rate"><br><br>
    <input id="t" placeholder="Time"><br><br>

    <button onclick="calculateSI()">OK</button>

    <script>
        function calculateSI() {
            var p = document.getElementById("p").value;
            var r = document.getElementById("r").value;
            var t = document.getElementById("t").value;

            var si = (p * r * t) / 100;
            alert("Simple Interest = " + si);
        }
    </script>
</body>
</html>
```

Q.13 Write an HTML script to insert a hyperlink that opens www.google.com in a new window.

SOLUTION:-

```
<html>
<head>
    <title>Google Hyperlink</title>
</head>
<body>
    <a href="https://www.google.com" target="_blank">Open Google</a>
</body>
</html>
```

Q.14 Create an HTML file that displays three images aligned to the Left, Center, and Right respectively.

SOLUTION:-

```
<html>
<head>
    <title>Image Alignment Page</title>
</head>
<body>
    <img src="a.jpg" align="left">
    <img src="b.jpg" align="center">
    <img src="c.jpg" align="right">
</body>
</html>
```

Q.15 Create a table using ROWSPAN and COLSPAN attributes to prepare your class timetable.
Include CELLSPACING and CELLPADDING.

SOLUTION:-

```
<html>
<head>
    <title>Class Timetable</title>
</head>
<body>
    <table border="1" cellspacing="5" cellpadding="5">
        <tr>
            <th>Day</th>
            <th colspan="2">Subjects</th>
        </tr>
        <tr>
            <td rowspan="2">Monday</td>
            <td>Math</td>
            <td>Science</td>
        </tr>
        <tr>
            <td>English</td>
            <td>Computer</td>
        </tr>
    </table>
</body>
</html>
```

Q.16 Create a web page divided into four frames.
In one frame, create three links that display different HTML forms in the remaining three frames.
Also, write a JavaScript program to print the factorial of a number.

SOLUTION:-

```
<html>
<head>
    <title>Factorial Using JavaScript</title>
</head>
<body>
    <script>
        function factorial(n) {
            var f = 1;
            for (var i = 1; i <= n; i++) {
                f = f * i;
            }
            document.write("Factorial = " + f);
        }
        factorial(5);
    </script>
</body>
</html>
```

Q.17 Using CSS, apply the shorthand background property to set a background image "xyz.png", show it once, and position it at the top-right corner.

SOLUTION:-

```
<html>
<head>
    <title>CSS Background Shorthand</title>
    <style>
        body {
            background: url("xyz.png") no-repeat right top;
        }
    </style>
</head>
<body>
</body>
</html>
```

Q.18 Write a JavaScript program to generate a series of prime numbers.

SOLUTION:-

```
<html>
<head>
    <title>Prime Number Series</title>
</head>
<body>
    <script>
        for (var i = 2; i <= 20; i++) {
            var prime = true;
            for (var j = 2; j < i; j++) {
                if (i % j === 0) {
                    prime = false;
                }
            }
            if (prime) {
                document.write(i + " ");
            }
        }
    </script>
</body>
</html>
```

Q.19 Write a JavaScript program to display the current day and time in the following format:

Sample Output:
Today is: Tuesday
Current time is: 10 PM : 30 : 38

SOLUTION:-

```
<html>
<head>
    <title>Current Day and Time</title>
</head>
<body>
    <script>
        var d = new Date();
        document.write("Today is: " + d.toDateString() + "<br>");
        document.write("Current time is: " + d.toLocaleTimeString());
    </script>
</body>
</html>
```

Q.20 Write a JavaScript program to calculate the sum and product of two numbers.

SOLUTION:-

```
<html>
<head>
    <title>Sum and Product Program</title>
</head>
<body>
    <script>
        var a = 5;
        var b = 3;

        document.write("Sum = " + (a + b) + "<br>");
        document.write("Product = " + (a * b));
    </script>
</body>
</html>
```

Q.21 Write a JavaScript program demonstrating redirect, popup, and print functions.

SOLUTION:-

```
<html>
<head>
    <title>Redirect Popup Print</title>
</head>
<body>
    <script>
        alert("Popup Message");
        window.print();
        window.location = "https://www.google.com";
    </script>
</body>
</html>
```

Q.22 Create your first "Hello World" application using AngularJS.

SOLUTION:-

```
<html ng-app>
<head>
    <title>AngularJS Hello World</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body>
    <h1>{{ "Hello World" }}</h1>
</body>
</html>
```

Q.23 Create an HTML page titled "Event Registration" that includes references to Bootstrap, jQuery, and AngularJS libraries.

SOLUTION:-

```
<html>
<head>
    <title>Event Registration</title>

    <link rel="stylesheet"
          href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css">

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body>
    <h1>Event Registration</h1>
</body>
</html>
```

Q.24 Write code to display the word "AngularJS" as normal text and inside a text box when the page loads.

SOLUTION:-

```
<html>
<head>
    <title>AngularJS Text Display</title>
</head>
<body>
    <p>AngularJS</p>
    <input type="text" value="AngularJS">
</body>
</html>
```

Q.25 Create a sample form that collects First Name, Last Name, Email, User ID, Password, and Confirm Password.

Conditions:

- All fields are mandatory
- Email must be in valid format
- Password and Confirm Password must match
- Use JavaScript for validation
- Display error messages in red color next to the respective textbox

SOLUTION:-

```html
<html>
<head>
    <title>User Registration Form Validation</title>
</head>
<body>
    <form onsubmit="return validateForm()">

        Email:
        <input type="email" id="email">
        <span style="color:red;"></span>
        <br><br>

        Password:
        <input type="password" id="p1">
        <br><br>

        Confirm Password:
        <input type="password" id="p2">
        <span id="msg" style="color:red;"></span>
        <br><br>

        <input type="submit" value="Submit">
    </form>

    <script>
        function validateForm() {
            var p1 = document.getElementById("p1").value;
            var p2 = document.getElementById("p2").value;

            if (p1 !== p2) {
                document.getElementById("msg").innerHTML =
                    "Password does not match";
                return false;
            }
            return true;
        }
    </script>
</body>
</html>
```

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