

Guru Nanak Institute of Technology

Web Technology Lab Copy

CS792C



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Class Roll No.: 08

Stream: Computer Science & Engineering (CSE) Section: 1

Year: 4th

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Batch: 2019 - 2023

Program 1

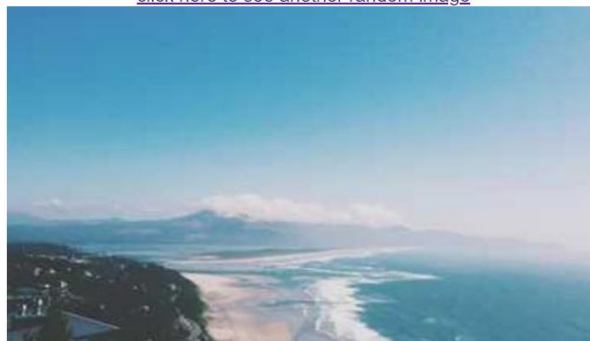
Write a single html program through which you can explain a) anchor tag, b) 'img' tag with 'src' attribute, c) paragraph d) heading.

```
<!DOCTYPE html>
<html>
  <head>
    <title>anchor tag, img tag withsrc attribute, paragraph and heading.</title>
    <style>
      html,body{
        font-family:Arial, Helvetica, sans-serif
      }
      .division{
        width: 500px;
        text-align: center;
      }
    </style>
  </head>
  <body>
    <div class="division" id="division">
      <h1>CSE-1</h1>
      <h3>WEB TECHNOLOGY</h3>
      <a href="https://picsum.photos/500/300">click here to see another random
image</a><br/>
      
    </div>
  </body>
</html>
```

CSE-1

WEB TECHNOLOGY

[click here to see another random image](https://picsum.photos/500/300)



Program 2

Write a single html program through which you can draw a table which consists of 3 rows and 4 columns where the 1st row contains 4 different column fields of a student's information with red text color and Calibri font style with font 12. Rest cells of the whole table contain values with blue text colors and Times new roman font style with font 10.

```
<!DOCTYPE html>
<html>
  <head>
    <title>a table which consists of 3 row and 4 columns</title>
    <style>
      html,body{
        font-family:Arial, Helvetica, sans-serif
      }.division{
        margin: 20px auto;
        width: fit-content;
      }h1{
        text-align: center;
      }table{
        color: blue;
        font-size: 10pt;
        font-family: 'Times New Roman';
        border: 1px solid grey;
      }th, td{
        text-align: center;
        width: 150px;
        border: 1px solid black;
      }.firstcolm{
        color:blue;
        font-size: 10pt;
        font-family:'Times New Roman';
      }table tr th{
        color:red;
        background-color: black;
        font-family:'Calibri';
        font-size: 12pt;
      }
    </style>
  </head>
  <body>
    <div class="division" id="division">
      <h1>Table</h1>
      <table>
        <tr>
          <th>NAME</th><th>YEAR</th><th>BRANCH</th><th>ROLL NO.</th>
        </tr>
```

```

<tr class="firstcolm">
<td>ANKITA BANERJEE </td><td>4th</td><td>CSE 1</td><td>15</td>
</tr>
<tr>
<td>ABHISHEK GUPTA</td><td>4th</td><td>CSE 2</td><td>61</td>
</tr>
<tr>
<td> DIKSHA SHAW </td><td>4th</td><td>CSE 1</td><td>06</td>
</tr>
</table>
</div>
</body>
</html>

```

Table

NAME	YEAR	BRANCH	ROLL NO.
ANKITA BANERJEE	4th	CSE 1	15
ABHISHEK GUPTA	4th	CSE 2	61
DIKSHA SHAW	4th	CSE 1	06

Write a single html program where 1st paragraph can collect its specified style from internal stylesheet describes inside that html program and 2nd paragraph can collect its specified style from another file (external stylesheet).

HTML FILE

```
<!DOCTYPE html>
<html>
  <head>
    <title>Paragraph external and internal css</title>
    <link rel="stylesheet" href="./style.css">
    <style>
      .paragraph{
        width: fit-content;
        margin: 20px auto;
      }.paragraph > p:first-child{
        color: red;
        font-size: 20pt;
        background-color: yellow;
        text-align: center;
      }
    </style>
  </head>
  <body>
    <div class="paragraph">
      <p>Hello, I'm GNITIAN</p>
      <p>Here are some text that you can see but can't write because this is default</p>
    </div>
  </body>
</html>
```

CSS FILE(style.css)

```
p{
  color:blue;
  font-size: 12pt;
}
```

Hello, I'm GNITIAN

Here are some text that you can see but can't write because this is default

Write a html program to find out Celsius temperature of a given Fahrenheit temperature using JavaScript.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Fahrenheit to Celsius</title>
  </head>
  <body>
    <h1>Fahrenheit to Celsius Converter</h1>
    <label for="celsius">Enter a value of temperature in Farenheit</label><br/>
    <p><input type="text" id="value"/>°F</p>
    <button type="submit" onclick="convert();">SUBMIT</button><br/>
    <p id="celsius">??°C</p>
  </body>
  <script type="text/javascript" defer>
    function convert(){
      var fahrenheit = document.getElementById("value").value;
      var celsius = [(fahrenheit-32)*5]/9;
      document.getElementById("celsius").innerHTML= celsius+"°C";
    }
  </script>
</html>
```

Fahrenheit to Celsius Converter

Enter a value of temperature in Farenheit

59 °F

SUBMIT

15°C

Write a html program to check whether an integer no is Armstrong no or not using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
    <title>Armstrong Number</title>
</head>
<body>
    <div class="division">
        <h1>Checking Armstrong Number</h1>
        <label for="Armstrong">Enter any number</label><br>
        <input type="text" id="value"><br>
        <button type="submit" onclick="check();">CHECK</button><br>
        <p id="answer"></p>
    </div>

    <script type="text/javascript" defer>
        function check(){
            var num = document.getElementById("value").value;
            var n = num;
            var sum=0;
            var answer="";
            while(n!=0){
                let mod = n% 10;
                sum=sum+Math.pow(mod,num.length);
                n = parseInt(n / 10);
            }
            if(sum == num){
                answer="Yes, the number is armstrong";
            }
            else{
                answer="No, the number is not armstrong ";
            }
            document.getElementById("answer").innerHTML= answer;
        }
    </script>
</body></html>
```

Checking Armstrong

Enter any value

Yes

Write a html program to check whether an integer no is prime no or not using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
  <title>Prime Number</title>
</head>
<body>
  <div class="division">
    <h1>Checking Prime Number</h1>
    <label for="Prime">Enter any value</label><br>
    <input type="text" id="value"><br>
    <button type="submit" onclick="check();">CHECK</button><br>
    <p id="answer"></p>
  </div>

  <script type="text/javascript" defer>
    function check(){
      var number = document.getElementById("value").value;
      let isPrime = true;
      var answer="";
      if(number === 1) {
        answer="1 is neither prime nor composite number.";
      }
      else if(number > 1) {
        for(let i = 2; i < number; i++) {
          if (number % i == 0) {
            isPrime = false;
            break;
          }
        }
        if(isPrime)
          answer=`${number} is a prime number`;
        else
          answer=`${number} is a not prime number`;
      }
      document.getElementById("answer").innerHTML= answer;
    }
  </script>
</body>
</html>
```

Checking Prime Number

Enter any value

11 is a prime number

Program 7

Write a html program to find out the greatest number among 3 input integer using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
    <title>Greatest Number</title>
</head>
<body>
    <div class="division">
        <h1>Finding Greatest Number</h1>
        <label for="Number">Enter three values</label><br>
        <input type="text" id="value1"><br>
        <input type="text" id="value2"><br>
        <input type="text" id="value3"><br>
        <button type="submit" onclick="findgreatest();">Run</button><br>
        <p id="answer"></p>
    </div>

    <script type="text/javascript" defer>
        function findgreatest(){
            var n1 = document.getElementById("value1").value;
            var n2 = document.getElementById("value2").value;
            var n3 = document.getElementById("value3").value;
            var answer = n1>n2?(n1>n3?n1:n3):(n2>n3?n2:n3);
            document.getElementById("answer").innerHTML= answer;
        }
    </script>
</body>
</html>
```

Finding Greatest Number

Enter three values

56
34
90
Run

90

Write a html program to check whether an integer no is odd or even using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
    <title>Odd or Even</title>
</head>
<body>
    <div class="division">
        <h1>Even/Odd Number Detection</h1>
        <label for="number">Enter a value</label><br>
        <input type="text" id="value"><br>
        <button type="submit" onclick="runfunc();">Run</button><br>
        <p id="answer"></p>
    </div>

    <script type="text/javascript" defer>
        function runfunc(){
            var num = document.getElementById("value").value;
            var answer = num!=0?(num%2==0?"Even":"Odd"):"Can't determine";
            document.getElementById("answer").innerHTML= answer;
        }
    </script>
</body>
</html>
```

Even | Odd Number Detection

Enter a values

Even

Write a html program to find out the factorial of a given input integer using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
    <title>Factorial</title>
</head>
<body>
    <div class="division">
        <h1>Factorial Calculator</h1>
        <label for="Factorial">Enter a value</label><br>
        <input type="text" id="value"><br>
        <button type="submit" onclick="runfunc();">Find</button><br>
        <p id="answer"></p>
    </div>
<script type="text/javascript" defer>
    function runfunc(){
        var number = document.getElementById("value").value;
        var answer="";
        if (number < 0) {
            answer='Error! Factorial for negative number does not exist.';
        }
        // if number is 0
        else if (number === 0) {
            answer=`The factorial of ${number} is 1.`;
        }
        // if number is positive
        else {
            let fact = 1;
            for (i = 1; i <= number; i++) {
                fact *= i;
            }
            answer=`The factorial of ${number} is ${fact}.`;
        }
        document.getElementById("answer").innerHTML= answer;
    }
</script>
</body></html>
```

Factorial Calculator

Enter a values

The factorial of 6 is 720.

Program 10

Write a html program to print Fibonacci series for the first “n” number using JavaScript.
[note: if n=7, then fibonacci series will be 0 1 1 2 3 5 8]

```
<!DOCTYPE html>
<html>
<head>
    <title>Fibonacci Series</title>
</head>
<body>
    <div class="division">
        <h1>Fibonacci Series</h1>
        <label for="number">Enter the n<sup>th</sup> term</label><br>
        <input type="text" id="value"><br>
        <button type="submit" onclick="runfunc();">Run</button><br>
        <p id="answer"></p>
    </div>

    <script type="text/javascript" defer>
        function runfunc(){
            var number = document.getElementById("value").value;
            var answer="";
            let n1 = 0, n2 = 1, nextTerm;
            for (let i = 1; i <= number; i++) {
                answer=answer+" "+n1;
                nextTerm = n1 + n2;
                n1 = n2;
                n2 = nextTerm;
            }
            document.getElementById("answer").innerHTML= answer;
        }
    </script>
</body></html>
```

Fibonacci Series

Enter the nth term

0 1 1 2 3 5 8 13 21 34