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## Q23-Write a javascript program to change the background colour dynamicly.

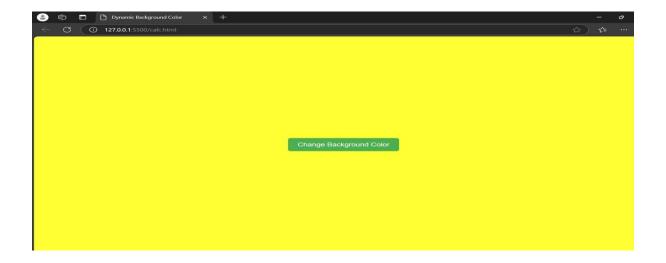
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,</pre>
initialscale=1.0">
  <title>Dynamic Background Color</title>
  <style>
body {
       font-family: Arial, sans-serif;
       display: flex;
justify-content: center;
align-items: center;
height: 100vh;
margin: 0;
    #colorButton {
padding: 10px 20px;
font-size: 16px;
cursor: pointer;
       border: none;
       background-color: #4CAF50;
color: white;
       border-radius: 5px;
     #colorButton:hover {
background-color: #45a049;
```

```
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  </style>
</head>
<body>
  <button id="colorButton">Change Background Color/button>
  <script>
    // Array of possible colors
    const colors = ["#FF5733", "#33FF57", "#3357FF", "#FF33A1",
"#FFFF33", "#33FFFF", "#FF5733"];
    // Function to change the background
          function
color
changeBackgroundColor() {
                                   //
Randomly select a color from the array
       const randomColor = colors[Math.floor(Math.random() *
colors.length)];
      // Set the background color
       document.body.style.backgroundColor = randomColor;
    // Attach the function to the button's click event
document.getElementById("colorButton").addEventListener("click",
changeBackgroundColor);
  </script>
</body>
</html>
```

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## Output-23:





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## Q24-Write a php script to write a factorial program using recursion.

```
<html>
<head>
<title> Factorial Program</title>
</head>
<body>
<form method="POST">
<label>Enter a number
<input type="text" name="number" />
<input type="submit" name="submit" value="Submit" />
</for
m>
<?php
function Factorial Function($input)
if($input <=1) {
return 1;
return $input * Factorial_Function($input-1);
if(!empty($_POST['
number'])){ $input
$ POST['number'];
echo '<br/>br>'. 'The factorial of the number '.$input.' is '.
Factorial Function($input);
}
?>
```

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>

## Output-24:

Enter a number Submit

The factorial of the number 9 is 362880

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# Q25 -Write the code to make a arithmetic calculator using $HTML\,,\,CSS\,,\,Javascript.$

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Simple Calculator</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
       margin-top: 50px;
    }
    .calculator {
      display: inline-block;
       border: 2px solid #000;
       padding: 20px;
      border-radius: 10px;
    }
    .output {
      width: 200px;
      height: 40px;
      text-align: right;
       margin-bottom: 10px;
      font-size: 20px;
```

```
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      padding: 5px;
      border: 2px solid #ccc;
      border-radius: 5px;
    }
    .buttons {
      display: grid;
      grid-template-columns: repeat(4, 50px);
      gap: 10px;
    }
    .buttons button {
      width: 50px;
      height: 50px;
      font-size: 20px;
      border: none;
      background-color: #f1f1f1;
      border-radius: 5px;
      cursor: pointer;
    .buttons button:hover {
      background-color: #ddd;
    }
    .buttons button:active {
      background-color: #bbb;
  </style>
</head>
<body>
  <div class="calculator">
    <input type="text" id="output" class="output" disabled>
    <div class="buttons">
      <button onclick="clearScreen()">C</button>
      <button onclick="appendToScreen('7')">7</button>
```

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```
<button onclick="appendToScreen('8')">8</button>
    <button onclick="appendToScreen('9')">9</button>
    <button onclick="appendToScreen('/')">/</button>
    <button onclick="appendToScreen('4')">4</button>
    <button onclick="appendToScreen('5')">5</button>
    <button onclick="appendToScreen('6')">6</button>
    <button onclick="appendToScreen('*')">*</button>
    <button onclick="appendToScreen('1')">1</button>
    <button onclick="appendToScreen('2')">2</button>
    <button onclick="appendToScreen('3')">3</button>
    <button onclick="appendToScreen('-')">-</button>
    <button onclick="appendToScreen('0')">0</button>
    <button onclick="appendToScreen('.')">.</button>
    <button onclick="calculate()">=</button>
    <button onclick="appendToScreen('+')">+</button>
  </div>
</div>
<script>
  // Function to clear the screen
  function clearScreen() {
    document.getElementById('output').value = ";
  }
  // Function to append a character to the screen
  function appendToScreen(value) {
    document.getElementById('output').value += value;
  }
  // Function to calculate the result
  function calculate() {
    try {
```

#### Output 25:



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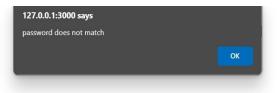
# Q26-Write a javascript progam for password verification.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <script>
    function matchpass(){
                               var
first password=document.myform.password
1.value;
              var
second password=document.myform.passw
ord2.value;
      if(first_password==second_password){
        alert("password matched");
        return true;
}
else
        alert("password does not match");
      }
  </script>
</head>
<body>
  <h2>Password verification</h2>
  <form name="myform" method="post" onsubmit="return
matchpass()">
```

```
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    Password :<input type="password"
name="password1"><br>
    Re-enter Password: <input type="pasword"
name="password2"><br>
    <input type="submit" value="submit">
    </form>
</body>
</html>
```

#### Output- 26:

# Password verification Password: .... Re-enter Password: 12345 submit



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#### Q27-Write a javascript code to perform event handling.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Multiple Event Handling Example</title>
  <style>
#hoverBox {
width: 200px;
height: 100px;
background-color:
lightblue;
border: 1px solid
#000;
margin-top: 20px;
text-align: center;
      line-height: 100px;
    }
    #output {
      margin-top: 20px;
  </style>
</head>
<body>
  <h2>Event Handling in JavaScript</h2>
```

```
Name: Himanshu
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Course: BCA
  <button id="clickButton">Click Me</button>
  <div id="hoverBox">Hover over me!</div>
  <form id="myForm">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required>
    <but
type="submit">Submit</button
> </form>
  <script>
    // Event 1: Button click event
    const clickButton = document.getElementById("clickButton");
    function handleButtonClick() {
      alert("Button clicked! Event handled.");
    }
    clickButton.addEventListener("click", handleButtonClick);
    // Event 2: Mouse hover event
    const hoverBox = document.getElementById("hoverBox");
    function handleMouseOver() {
      hoverBox.style.backgroundColor = "lightgreen"; // Change
                               hoverBox.textContent = "Thanks for
color when mouse hovers
hovering!";
    function handleMouseOut() {
      hoverBox.style.backgroundColor = "lightblue"; // Reset color
                         hoverBox.textContent = "Hover over me!";
when mouse leaves
    }
```

```
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    hoverBox.addEventListener("mouseover", handleMouseOver);
hoverBox.addEventListener("mouseout", handleMouseOut);
    // Event 3: Form submit event
    const form = document.getElementById("myForm");
    function handleFormSubmit(event) {
      event.preventDefault(); // Prevent form submission to allow
validation
      const username =
document.getElementById("username").value;
      if (username.trim() === "") {
        alert("Username is required!");
      } else {
        document.getElementById("output").textContent = "Form
submitted successfully with username: " + username;
      }
    }
    form.addEventListener("submit",
handleFormSubmit);
                      </script>
</body>
</html>
```

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#### Output-27:



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#### Q28- Write a php script and implement the following array:

```
1=indexed array
2=associative array
3=multidimension
array
Code:
<?php
$student=array("david","john","
maria", "sunny"); echo "<b> 1=
the indexed array is : </b> <br>
<br>";
var dump($s
tudent);
echo
"<br>";
$employee=array("ename"=>"Rani","eid"=>1001,"salary"=>50000);
echo "<b> 2= the associative array is : </b><br>";
echo
$employee["e
id"]; echo
"<br>"; echo
$employee["e
name"]; echo
"<br>";
```

```
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$students =
array(
array("John", 25,
"A"),
array("Jane", 22,
"B"),
  array("Tom", 24, "C")
);
echo "<b> 3= the multidimension
array is : </b><br>"; echo
$students[0][0]; echo "<br>"; echo
$students[2][1];
?>
Output-29:
1= the indexed array is:
array(4) \{ [0] => string(5) "david" [1] => string(4) "john" [2] => string(5) 
"maria" [3]=> string(5) "sunny" }
2= the associative array is:
1001
Rani
3= the multidimension array is:
John
24
```

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#### Q30-write a javascript program to validate a form.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Form Validation Example</title>
  <script>
    function validate() {
      var name =
document.myform.name.value;
var password =
document.myform.password.value
x=document.myform.email.value;
var atposition=x.indexOf("@");
var dotposition=x.lastIndexOf(".");
      // Check if the name field is
empty or only contains spaces
                                     if
(name == null | | name.trim() == "") {
alert("Name can't be null or empty.");
        return false; // Prevent form submission
      }
      // Check if the password length
                              if
is less than 6 characters
(password.length < 6) {
        alert("Password must be at
least 6 characters.");
false; // Prevent form submission
```

```
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      }
      if(atposition<1 || dotposition<atposition+2 ||
dotposition+2>=a.length){
        alert("please enter a valid email address \natposition
"+atposition +"\n dotpostion :"+ dotposition);
        return false;
      }
      // If both checks pass, allow
form submission
                       return
true;
  </script>
  <!-- Form to collect user name and password -->
  <h2>Registration Form</h2>
  <form name="myform" method="post" onsubmit="return</pre>
validate()">
    Name: <input type="text"
name="name"><br><br>
                           Password:
<input type="password"
name="password"><br><br>
email<input type="text"
name="email"><br>
    <input type="submit" value="Register">
  </form>
</body>
</html>
```

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### Output-30:

## Registration Form

Name:	
Password:	
email	
Register	

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