Q 11. Write a program Using Java Script validation in HTML Forms.

```
!DOCTYPE html>
 <title>Form Validation</title>
   function validateForm() {
     let isValid = true;
      document.getElementById("nameError").innerText = "";
      document.getElementById("emailError").innerText = "";
      document.getElementById("passwordError").innerText = "";
      const name = document.forms["myForm"]["name"].value;
      const email = document.forms["myForm"]["email"].value;
      const password = document.forms["myForm"]["password"].value;
     if (name === "") {
        document.getElementById("nameError").innerText = "Name is required.";
        isValid = false;
      } else if (!/^[a-zA-Z-']+$/.test(name)) {
        document.getElementById("nameError").innerText = "Only letters and spaces are allowed.";
        isValid = false;
     if (email === "") {
        document.getElementById("emailError").innerText = "Email is required.";
        isValid = false;
      } else if (!/^\S+@\S+\.\S+\.\test(email)) {
        document.getElementById("emailError").innerText = "Invalid email format.";
        isValid = false;
     if (password === "") {
        document.getElementById("passwordError").innerText = "Password is required.";
        isValid = false;
      } else if (password.length < 6) {
        document.getElementById("passwordError").innerText = "Password must be at least 6 characters long.";
        isValid = false;
     return is Valid; // Return true if all validations pass
```

Form Validation Example

Name:

amrit

Email:

amrit@gmail.com

Password:

.....

Submit

Q 12. Create a dynamic webpage with the help of JavaScript events.

```
!DOCTYPE html>
html lang="en">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Dynamic To-Do List</title>
   body {
     font-family: Arial, sans-serif;
     margin: 20px;
     line-height: 1.6;
   #todoList {
     list-style-type: none;
     padding: 0;
   #todoList li {
     padding: 10px;
     background-color: #f4f4f4;
     margin: 5px 0;
     display: flex;
     justify-content: space-between;
     align-items: center;
     border-radius: 5px;
   #todoList li:hover {
     background-color: #e0e0e0;
   button {
     background-color: #dc3545;
     color: white;
     border: none;
     padding: 5px 10px;
     border-radius: 3px;
   button:hover {
     background-color: #c82333;
   input {
     padding: 8px;
     width: 300px;
     margin-bottom: 10px;
     border: 1px solid #ccc;
      border-radius: 5px;
```

```
<h1>Dynamic To-Do List</h1>
Add items to your to-do list and manage them dynamically!
<input type="text" id="todoInput" placeholder="Enter a new task" />
<button onclick="addTodo()">Add</button>
  // Function to add a new to-do item
  function addTodo() {
     const input = document.getElementById("todoInput");
     const task = input.value.trim();
       alert("Please enter a task!");
     const listItem = document.createElement("li");
     listItem.textContent = task;
     // Create a delete button for the list item
     const deleteButton = document.createElement("button");
     deleteButton.textContent = "Delete";
     deleteButton.onclick = function () {
       deleteTodoItem(listItem);
     listItem.appendChild(deleteButton);
     document.getElementById ("todoList").appendChild (listItem);\\
     // Clear the input field
     input.value = "";
  function deleteTodoItem(item) {
     const list = document.getElementById("todoList");
     list.removeChild(item);
```

```
// Event listener for Enter key to add a to-do item

document.getElementById("todoInput").addEventListener("keypress", function (event) {
    if (event.key === "Enter") {
        addTodo();
    }
    });
    </script>
</body>
</html>
```

Dynamic To-Do List

Add items to your to-do list and manage them dynamically!



Q 13. Introduction to JSP- Demo program.

Name: Amrish puri

Email: amrishpuri13@gmaikl.com

Submit

Submitted Data:

Name: Amrish puri

Email: amrishpuri13@gmaikl.com

Q 14. Introduction to JSP Life cycle

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <title>JSP Life Cycle Demo</title>
```

```
</head>
<body>
 <h1>JSP Life Cycle Demonstration</h1>
   int visitCount = 0; // Instance variable (maintained across requests)
   // JSP Life Cycle: Initialization
   public void jspInit() {
      visitCount = 1; // Initialize the variable
      System.out.println("JSP Initialized - jspInit() called.");
   // JSP Life Cycle: Execution
    visitCount++; // Increment the visit count
    out.println("Welcome to the JSP Life Cycle Demo!");
    out.println("Visit Count: " + visitCount + "");
    System.out.println("JSP Executing - Service phase called.");
   public void jspDestroy() {
      System.out.println("JSP Destroyed - jspDestroy() called.");
</body>
</html>
```

Welcome to the JSP Life Cycle Demo! Visit Count: 1

Welcome to the JSP Life Cycle Demo! Visit Count: 2

Q 15. Write simple PHP program to set cookies and read it

```
<?php
// Set a cookie named "user" with a value "John Doe" that expires in 1 hour
if (!isset($ COOKIE['user'])) {</pre>
```

Cookie 'user' is already set! Hello, John Doe!

PHP Cookie Example

Refresh the page to see the cookie behavior.

Q 16. Write a PHP code using function to find the sum of two integers.

```
<!DOCTYPE html>
<html lang="en">
<head>
</head>
```

Enter Two Integers to Find Their Sum

First Number: 45	
Second Number: 78	\$
Calculate Sum	

The sum of 45 and 78 is: 123

Q 17. (a) Perform from validation using PHP .(b) Write a PHP program to validate Name, Email and password

html		
<html></html>		

```
<title>PHP Form Validation</title>
  .error { color: red; }
$name = $email = $password = "";
$nameErr = $emailErr = $passwordErr = "";
if ($ SERVER["REQUEST METHOD"] == "POST") {
  if (empty($_POST["name"])) {
    $nameErr = "Name is required";
  } else {
    $name = test input($ POST["name"]);
    if (!preg_match("/^[a-zA-Z-']*$/", $name)) {
       $nameErr = "Only letters and white space allowed";
  if (empty($ POST["email"])) {
     $emailErr = "Email is required";
  } else {
    $email = test input($ POST["email"]);
    if (!filter var($email, FILTER VALIDATE EMAIL)) {
       $emailErr = "Invalid email format";
  // Validate Password
  if (empty($_POST["password"])) {
     $passwordErr = "Password is required";
  } else {
    $password = test_input($_POST["password"]);
    if (strlen($password) < 6) {
       $passwordErr = "Password must be at least 6 characters long";
function test input($data) {
  $data = trim($data);
  $data = stripslashes($data);
```

```
$data = htmlspecialchars($data);
        return $data;
<h2>PHP Form Validation Example</h2>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
        <label for="name">Name:</label>
       <input type="text" name="name" value="<?php echo $name; ?>">
       <span class="error">* <?php echo $nameErr; ?></span>
       <label for="email">Email:</label>
       <input type="text" name="email" value="<?php echo $email; ?>">
        <span class="error">* <?php echo $emailErr; ?></span>
        <label for="password">Password:</label>
        <input type="password" name="password" value="<?php echo $password; ?>">
       <span class="error">* <?php echo $passwordErr; ?></span>
        <input type="submit" value="Submit">
if (\$ SERVER["REQUEST METHOD"] = "POST" \&\& !\$nameErr \&\& !\$emailErr \&\& !\$passwordErr) \{ the properties of the propertie
       echo "<h3>Form submitted successfully!</h3>";
       echo "Name: $name";
       echo "Email: $email";
```

PHP Form Validation Example

Name:	Amrish puri	*
Email:	ert@gmail.com	*
Passwo	ord:	*
Submi	t	

Form submitted successfully!

Name: Amrish puri

Email: ert@gmail.com

Q 18. File Handling in PHP (a)Create a PHP program to demonstrate opening and closing a file.

Output:

File 'example.txt' opened successfully in write mode. File 'example.txt' closed successfully.

(b) Create a PHP program to demonstrate reading a file.

```
// File name

Sfilename = "example.txt";

// Create a file and write some content for demonstration
file put contents(Sfilename, "This is an example of file reading in PHP.");

// Open the file in read mode

Sfile = fopen(Sfilename, "r");

// Check if the file opened successfully
if (Sfile) {
    echo "File 'Sfilename' opened successfully in read mode.<br/>
'";
    echo "Contents of the file:<br/>
'";

// Read the file until the end
while (!feof(Sfile)) {
    Sline = fgets(Sfile); // Read a line from the file
    echo Sline . "<br/>
'";

// Close the file
felose(Sfile);
} else {
    echo "Failed to open the file 'Sfilename'.<br/>
'";
}
```

File 'example.txt' opened successfully in read mode. Contents of the file:

This is an example of file reading in PHP.

Q 19. Create an HTML form that has a number of text boxes. The user fills the textboxes with data. Write a script that verifies that all textboxes have been filled. If a text box has been left empty pop up an alert message indicating the box that has been left empty. When OK button is clicked, set focus to that specific textbox. If all the textboxes are filled, display thank you.

```
const fields = ["name", "email", "phone", "address"];
       for (let field of fields) {
         const input = form[field];
         if (input.value.trim() === "") {
           alert(`Please fill the ${field} field.`);
           input.focus();
       alert("Thank you!");
  <h2>Form Validation Example</h2>
  <form name="userForm" onsubmit="return validateForm()">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name"><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email"><br><br>
    <label for="phone">Phone:</label>
    <input type="text" id="phone" name="phone"><br><br>
    <button type="submit">Submit</button>
Output:
                                                                  127.0.0.1:5500 says
Form Validation Example
                                                                  Thank you!
Name: Jatin
Email: ja123@gmail.com
Phone: 41273479279
Address: noida
```

Q 20. Create a program to verify whether email address provided by the user is valid or invalid.

Submit

```
<!DOCTYPE html>
<html lang="en">
<head>
<script>
function validateEmail() {
    const emailInput = document.getElementById("email").value.trim();
    const emailPattern = /^[a-zA-Z0-9._]%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
```

```
if (emailInput === "") {
    alert("Please enter an email address.");
    return false;
}
if (!emailPattem.test(emailInput)) {
    alert("Invalid email address. Please enter a valid email.");
    return false;
}
alert("Valid email address. Thank you!");
return true;
}
</script>
</head>
</body>
</h2>
Email Validation Example</h2>
<form onsubmit="return validateEmail()">
<label for="email">Email Address:</label>
<input type="text" id="email" name="email" placeholder="Enter your email" required>
<br/>
```

Email Validation Example

Email Address: apjk@yahoo.com

Validate Email

127.0.0.1:5500 says
Valid email address. Thank you!