DEPARTMENT OF COMPUTER SCIENCE RAJAGIRI COLLEGE OF SOCIAL SCIENCES (Autonomous) KALAMASSERY - KOCHI - 683104



MASTER OF COMPUTER APPLICATIONS

WEB TECHNOLOGY LAB MCA 206 LAB RECORD

NAME : N S ASNA BEEGEM

SEMESTER : II

REGISTER NO: 2124036



DEPARTMENT OF COMPUTER SCIENCE RAJAGIRI COLLEGE OF SOCIAL SCIENCES (Autonomous) KALAMASSERY - KOCHI – 683104 MASTER OF COMPUTER APPLICATIONS

CERTIFICATE

NAME : N S ASNA BEEGEM

SEMESTER : II

REGISTER NO : 2124036

Certified that this is a bonafide record of work done by the student in the Software Laboratory of Rajagiri Department of Computer Science, Kalamassery.

Mr. Diljith K Benny Faculty in Charge

Dr. Bindiya M Varghese Dean, Computer Science

Internal Examiner External Examiner

Place: Kalamassery

Date:

Department of Computer Sciences, Rajagiri College of Social Sciences

Table of Contents Page No

1. Program for Login Form using Modal	1-4
2. Program for Clickable dropdown	5-6
3. Program for Responsible top navbar	7-9
4. Program for Search Menu	10-12
5. Program for Side-nav push	13-15
6. Program for Toggle like/dislike	16
7. Program for Draggable HTML element	17-18
8. Program for Pop-up chat window	19-21
9. Program for Quotes slideshow	22-24
10. Program for Count-down Timer	25-26
11. XML Program to represent the books	27
12. Program to represent the XML E-mails	28
13. Program to represent the XML plant catalog	29-30
14. AJAX program to display an alert box after the load() methpd completes.	31
15. AJAX program to hide the content using jQuery	32
16. AJAX program to add a class on click of anchor tag jQuery and addClass() method.	33
17. PHP program to print star triangle using for loop	34
18. PHP program to print chess board	35
19. PHP program for Name.E-mail and URL validation	36-38
20. PHP program for Simple Calculator using Switch case	39-40
21. PHP program to check whether a number is Armstrong or not using form	41
22. PHP program of cookie	42
23. PHP program to display the leap years between 1991 and 2022	43
24. PHP program to check whether the following strings are palindrome or not	44
25. PHP program for insertion sort	45

Department of Computer Sciences, Rajagiri College of Social Sciences

26. PHP program for merge sort	46-47
27. Program to represent JSON array	48
28. Program to represent JSON array having objects	49
29. Program to represent PHP JSON string.	50-51

PROGRAM #1 03-02-2022

Program for Login form using Modal

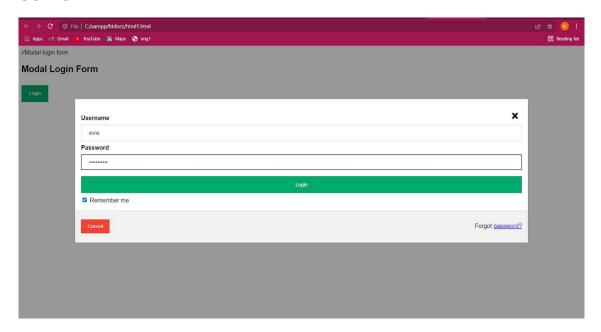
```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
body {font-family: Arial, Helvetica, sans-serif;}
input[type=text], input[type=password] {
 width: 100%;
 padding: 12px 20px;
 margin: 8px 0;
 display: inline-block;
 border: 1px solid #ccc;
 box-sizing: border-box;
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
button:hover {
 opacity: 0.8;
}
.cancelbtn {
 width: auto;
 padding: 10px 18px;
 background-color: #f44336;
.imgcontainer {
 text-align: center;
 margin: 24px 0 12px 0;
 position: relative;
img.avatar {
 width: 40%;
 border-radius: 50%;
.container {
 padding: 16px;
```

```
span.psw {
 float: right;
 padding-top: 16px;
.modal {
 display: none;
 position: fixed;
 z-index: 1;
 left: 0;
 top: 0;
 width: 100%;
 height: 100%;
 overflow: auto;
 background-color: rgb(0,0,0);
 background-color: rgba(0,0,0,0.4);
 padding-top: 60px;
.modal-content {
 background-color: #fefefe;
 margin: 5% auto 15% auto;
 border: 1px solid #888;
 width: 80%; }
.close {
 position: absolute;
 right: 25px;
 top: 0;
 color: #000;
 font-size: 35px;
 font-weight: bold;
.close:hover,
.close:focus {
 color: red;
 cursor: pointer;
}
.animate {
 -webkit-animation: animatezoom 0.6s;
 animation: animatezoom 0.6s
@-webkit-keyframes animatezoom {
from {-webkit-transform: scale(0)}
 to {-webkit-transform: scale(1)}
@keyframes animatezoom {
 from {transform: scale(0)}
 to {transform: scale(1)}
```

```
@media screen and (max-width: 300px) {
 span.psw {
  display: block;
  float: none;
 .cancelbtn {
  width: 100%;
}
}
</style>
</head>
<body>
<h2>Modal Login Form</h2>
<button onclick="document.getElementById('id01').style.display='block'"
style="width:auto;">Login</button>
<div id="id01" class="modal">
 <form class="modal-content animate" action="/action_page.php" method="post">
  <div class="imgcontainer">
   <span onclick="document.getElementById('id01').style.display='none'" class="close"</pre>
title="Close Modal">×</span>
    </div>
  <div class="container">
   <label for="uname"><b>Username</b></label>
   <input type="text" placeholder="Enter Username" name="uname" required>
   <label for="psw"><b>Password</b></label>
   <input type="password" placeholder="Enter Password" name="psw" required>
   <button type="submit">Login</button>
   <label>
    <input type="checkbox" checked="checked" name="remember"> Remember me
   </label>
  </div>
  <div class="container" style="background-color:#f1f1f1">
   <button type="button" onclick="document.getElementById('id01').style.display='none'"</pre>
class="cancelbtn">Cancel</button>
   <span class="psw">Forgot <a href="#">password?</a></span>
  </div>
 </form>
</div>
```

```
<script>
// Get the modal
var modal = document.getElementById('id01');

// When the user clicks anywhere outside of the modal, close it
window.onclick = function(event) {
   if (event.target == modal) {
      modal.style.display = "none";
   }
}
</script>
</body>
</html>
```



PROGRAM #2 03-02-2022

Program for Clickable dropdown

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
.dropbtn {
 background-color: #3498DB;
 color: white;
 padding: 16px;
 font-size: 16px;
 border: none;
 cursor: pointer;
.dropbtn:hover, .dropbtn:focus {
 background-color: #2980B9;
}
.dropdown {
 position: relative;
 display: inline-block;
}
.dropdown-content {
 display: none;
 position: absolute;
 background-color: #f1f1f1;
 min-width: 160px;
 overflow: auto;
 box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
 z-index: 1;
}
.dropdown-content a {
 color: black;
 padding: 12px 16px;
 text-decoration: none;
 display: block;
}
.dropdown a:hover {background-color: #ddd;}
.show {display: block;}
</style>
</head>
<body>
```

```
<h2>Clickable Dropdown</h2>
Click on the button to open the dropdown menu.
<div class="dropdown">
 <button onclick="myFunction()" class="dropbtn">Dropdown</button>
 <div id="myDropdown" class="dropdown-content">
  <a href="#home">Home</a>
  <a href="#about">About</a>
  <a href="#contact">Contact</a>
 </div>
</div>
<script>
function myFunction() {
 document.getElementById("myDropdown").classList.toggle("show");
}
window.onclick = function(event) {
 if (!event.target.matches('.dropbtn')) {
 var dropdowns = document.getElementsByClassName("dropdown-content");
  for (i = 0; i < dropdowns.length; i++) {
   var openDropdown = dropdowns[i];
   if (openDropdown.classList.contains('show')) {
    openDropdown.classList.remove('show');
   }
 }
 }
</script>
</body>
</html>
```



PROGRAM #3 03-02-2022

Program for Responsive top navbar

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css">
<style>
body {
 margin: 0;
font-family: Arial, Helvetica, sans-serif;
}
.topnav {
 overflow: hidden;
 background-color: #333;
}
.topnav a {
 float: left;
 display: block;
 color: #f2f2f2;
 text-align: center;
 padding: 14px 16px;
 text-decoration: none;
 font-size: 17px;
}
.topnav a:hover {
 background-color: #ddd;
 color: black;
}
.topnav a.active {
 background-color: #04AA6D;
 color: white;
}
.topnav .icon {
 display: none;
@media screen and (max-width: 600px) {
 .topnav a:not(:first-child) {display: none;}
```

```
.topnav a.icon {
  float: right;
  display: block;
}
}
@media screen and (max-width: 600px) {
 .topnav.responsive {position: relative;}
 .topnav.responsive .icon {
  position: absolute;
  right: 0;
  top: 0;
 }
 .topnav.responsive a {
  float: none;
  display: block;
  text-align: left;
}
</style>
</head>
<body>
<div class="topnav" id="myTopnav">
 <a href="#home" class="active">Home</a>
 <a href="#news">News</a>
 <a href="#contact">Contact</a>
 <a href="#about">About</a>
 <a href="javascript:void(0);" class="icon" onclick="myFunction()">
  <i class="fa fa-bars"></i>
 </a>
</div>
<div style="padding-left:16px">
 <h2>Responsive Topnav Example</h2>
 Resize the browser window to see how it works.
</div>
<script>
function myFunction() {
 var x = document.getElementById("myTopnav");
 if (x.className === "topnav") {
  x.className += " responsive";
 } else {
  x.className = "topnav";
 }
}
```

</script>

</body>

</html>



PROGRAM #4 03-02-2022

Program for Search Menu

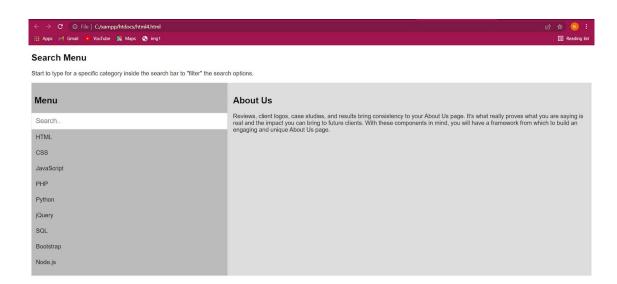
```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body {
font-family: Arial, Helvetica, sans-serif;
}
* {
 box-sizing: border-box;
/* Create a column layout with Flexbox */
.row {
 display: flex;
/* Left column (menu) */
.left {
flex: 35%;
 padding: 15px 0;
}
.left h2 {
 padding-left: 8px;
/* Right column (page content) */
.right {
flex: 65%;
 padding: 15px;
/* Style the search box */
#mySearch {
 width: 100%;
 font-size: 18px;
 padding: 11px;
 border: 1px solid #ddd;
```

```
/* Style the navigation menu inside the left column */
#myMenu {
list-style-type: none;
padding: 0;
margin: 0;
}
#myMenu li a {
padding: 12px;
text-decoration: none;
color: black;
display: block
}
#myMenu li a:hover {
background-color: #eee;
</style>
</head>
<body>
<h2>Search Menu</h2>
Start to type for a specific category inside the search bar to "filter" the search
options.
<div class="row">
<div class="left" style="background-color:#bbb;">
 <h2>Menu</h2>
 <input type="text" id="mySearch" onkeyup="myFunction()" placeholder="Search.."
title="Type in a category">
  <a href="#">HTML</a>
  <a href="#">CSS</a>
  <a href="#">JavaScript</a>
  <a href="#">PHP</a>
  <a href="#">Python</a>
  <a href="#">jQuery</a>
  <a href="#">SQL</a>
  <a href="#">Bootstrap</a>
  <a href="#">Node.js</a>
 </div>
<div class="right" style="background-color:#ddd;">
 <h2>About Us</h2>
```

Reviews, client logos, case studies, and results bring consistency to your About Us page. It's what really proves what you are saying is real and the impact you can bring to future clients.

With these components in mind, you will have a framework from which to build an engaging and unique About Us page.

```
<script>
function myFunction() {
 var input, filter, ul, li, a, i;
 input = document.getElementById("mySearch");
 filter = input.value.toUpperCase();
 ul = document.getElementById("myMenu");
 li = ul.getElementsByTagName("li");
 for (i = 0; i < li.length; i++)
  a = li[i].getElementsByTagName("a")[0];
  if (a.innerHTML.toUpperCase().indexOf(filter) > -1) {
   li[i].style.display = "";
  } else {
   li[i].style.display = "none";
  }
 }
</script>
</body>
</html>
```

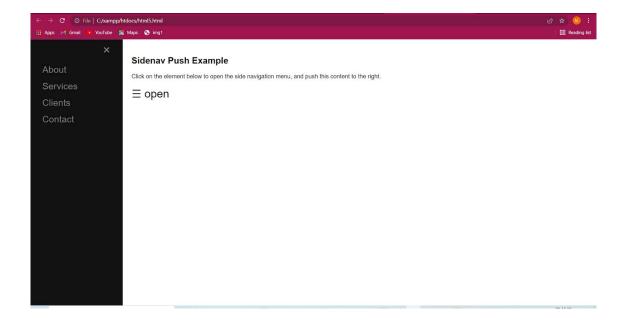


PROGRAM #5 03-02-2022

Program for Side-nav push

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body {
font-family: "Lato", sans-serif;
}
.sidenav {
 height: 100%;
 width: 0;
 position: fixed;
 z-index: 1;
 top: 0;
 left: 0;
 background-color: #111;
 overflow-x: hidden;
 transition: 0.5s;
 padding-top: 60px;
.sidenav a {
 padding: 8px 8px 8px 32px;
 text-decoration: none;
 font-size: 25px;
 color: #818181;
 display: block;
 transition: 0.3s;
}
.sidenav a:hover {
color: #f1f1f1;
}
.sidenav .closebtn {
 position: absolute;
 top: 0;
 right: 25px;
 font-size: 36px;
 margin-left: 50px;
```

```
}
#main {
 transition: margin-left .5s;
 padding: 16px;
@media screen and (max-height: 450px) {
 .sidenav {padding-top: 15px;}
 .sidenav a {font-size: 18px;}
}
</style>
</head>
<body>
<div id="mySidenav" class="sidenav">
 <a href="javascript:void(0)" class="closebtn" onclick="closeNav()">&times;</a>
 <a href="#">About</a>
 <a href="#">Services</a>
 <a href="#">Clients</a>
 <a href="#">Contact</a>
</div>
<div id="main">
 <h2>Sidenav Push Example</h2>
 Click on the element below to open the side navigation menu, and push this content to
the right.
 <span style="font-size:30px;cursor:pointer" onclick="openNav()">&#9776; open</span>
</div>
<script>
function openNav() {
 document.getElementById("mySidenav").style.width = "250px";
 document.getElementById("main").style.marginLeft = "250px";
}
function closeNav() {
 document.getElementById("mySidenav").style.width = "0";
 document.getElementById("main").style.marginLeft= "0";
</script>
</body>
</html>
```



PROGRAM #6 03-02-2022

Program for Toggle like/dislike

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css">
<style>
.fa {
font-size: 50px;
 cursor: pointer;
 user-select: none;
}
.fa:hover {
 color: darkblue;
}
</style>
</head>
<body>
Click on the icon to toggle between thumbs-up and thumbs-down (like/dislike):
<i onclick="myFunction(this)" class="fa fa-thumbs-up"></i>
<script>
function myFunction(x) {
x.classList.toggle("fa-thumbs-down");
}
</script>
</body>
</html>
```

OUTPUT



Click on the icon to toggle between thumbs-up and thumbs-down (like/dislike):



PROGRAM #7 03-02-2022

Program for Draggable HTML element

```
<!DOCTYPE html>
<html>
<style>
#mydiv {
 position: absolute;
 z-index: 9;
 background-color: #f1f1f1;
 text-align: center;
 border: 1px solid #d3d3d3;
#mydivheader {
 padding: 10px;
 cursor: move;
 z-index: 10;
 background-color: #2196F3;
 color: #fff;
}
</style>
<body>
<h1>WELCOME TO MY PAGE</h1>
<Click and hold the mouse button down while moving the DIV element</p>
<div id="mydiv">
 <div id="mydivheader">Click here to move</div>
 Home
 About Us
 Login
</div>
<script>
function dragElement(elmnt) {
 var pos1 = 0, pos2 = 0, pos3 = 0, pos4 = 0;
 if (document.getElementById(elmnt.id + "header")) {
  /* if present, the header is where you move the DIV from:*/
  document.getElementById(elmnt.id + "header").onmousedown = dragMouseDown;
 } else {
  /* otherwise, move the DIV from anywhere inside the DIV:*/
  elmnt.onmousedown = dragMouseDown;
 function dragMouseDown(e) {
  e = e | | window.event;
  e.preventDefault();
  // get the mouse cursor position at startup:
  pos3 = e.clientX;
  pos4 = e.clientY;
  document.onmouseup = closeDragElement
```

```
document.onmousemove = elementDrag;
 function elementDrag(e) {
  e = e | | window.event;
  e.preventDefault();
  // calculate the new cursor position:
  pos1 = pos3 - e.clientX;
  pos2 = pos4 - e.clientY;
  pos3 = e.clientX;
  pos4 = e.clientY;
  // set the element's new position:
  elmnt.style.top = (elmnt.offsetTop - pos2) + "px";
  elmnt.style.left = (elmnt.offsetLeft - pos1) + "px";
 function closeDragElement() {
  /* stop moving when mouse button is released:*/
  document.onmouseup = null;
  document.onmousemove = null;
}
</script>
</body>
</html>
```



WELCOME TO MY PAGE

Click and hold the mouse button down while moving the DIV element

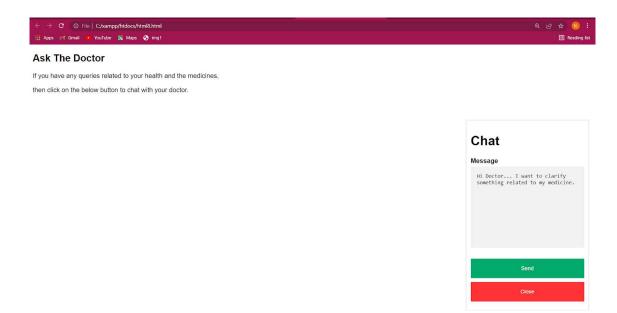


PROGRAM #8 03-02-2022

Program for Pop-up chat window

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
body {font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box;}
.open-button {
 background-color: #555;
 color: white;
 padding: 16px 20px;
 border: none;
 cursor: pointer;
 opacity: 0.8;
 position: fixed;
 bottom: 23px;
 right: 28px;
 width: 280px;
}
.chat-popup {
 display: none;
 position: fixed;
 bottom: 0;
 right: 15px;
 border: 3px solid #f1f1f1;
 z-index: 9;
}
.form-container {
 max-width: 300px;
 padding: 10px;
 background-color: white;
.form-container textarea {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 border: none;
 background: #f1f1f1;
 resize: none;
 min-height: 200px;
.form-container textarea:focus {
 background-color: #ddd;
```

```
outline: none;
}
.form-container .btn {
 background-color: #04AA6D;
 color: white;
 padding: 16px 20px;
 border: none;
 cursor: pointer;
 width: 100%;
 margin-bottom:10px;
 opacity: 0.8;
}
.form-container .cancel {
 background-color: red;
.form-container .btn:hover, .open-button:hover {
 opacity: 1;
}
</style>
</head>
<body>
<h2>Ask The Doctor</h2>
If you have any queries related to your health and the medicines,
then click on the below button to chat with your doctor.
<button class="open-button" onclick="openForm()">Chat</button>
<div class="chat-popup" id="myForm">
 <form action="/action_page.php" class="form-container">
  <h1>Chat</h1>
  <label for="msg"><b>Message</b></label>
  <textarea placeholder="Type message.." name="msg" required></textarea>
  <button type="submit" class="btn">Send</button>
  <button type="button" class="btn cancel" onclick="closeForm()">Close</button>
 </form>
</div>
<script>
function openForm() {
 document.getElementById("myForm").style.display = "block";
function closeForm() {
 document.getElementById("myForm").style.display = "none";
</script>
</body>
</html>
```



PROGRAM #9 03-02-2022

Program for Quotes Slideshow

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {box-sizing: border-box}
body {font-family: Verdana, sans-serif; margin:0}
.slideshow-container {
 position: relative;
 background: #f1f1f1f1;
}
.mySlides {
 display: none;
 padding: 80px;
 text-align: center;
.prev, .next {
 cursor: pointer;
 position: absolute;
 top: 50%;
 width: auto;
 margin-top: -30px;
 padding: 16px;
 color: #888;
 font-weight: bold;
 font-size: 20px;
 border-radius: 0 3px 3px 0;
 user-select: none;
}
.next {
 position: absolute;
 right: 0;
 border-radius: 3px 0 0 3px;
}
.prev:hover, .next:hover {
 background-color: rgba(0,0,0,0.8);
 color: white;
}
.dot-container {
  text-align: center;
  padding: 20px;
  background: #ddd;
```

```
.dot {
 cursor: pointer;
 height: 15px;
 width: 15px;
 margin: 0 2px;
 background-color: #bbb;
 border-radius: 50%;
 display: inline-block;
 transition: background-color 0.6s ease;
}
.active, .dot:hover {
 background-color: #717171;
}
q {font-style: italic;}
.author {color: cornflowerblue;}
</style>
</head>
<body>
<div class="slideshow-container">
<div class="mySlides">
 <q>I love you the more in that I believe you had liked me for my own sake and for nothing
else</q>
 - John Keats
</div>
<div class="mySlides">
 <q>But man is not made for defeat. A man can be destroyed but not defeated.</q>
 - Ernest Hemingway
</div>
<div class="mySlides">
 <q>I have not failed. I've just found 10,000 ways that won't work.</q>
 - Thomas A. Edison
</div>
<a class="prev" onclick="plusSlides(-1)"><</a>
<a class="next" onclick="plusSlides(1)">>></a>
</div>
<div class="dot-container">
 <span class="dot" onclick="currentSlide(1)"></span>
 <span class="dot" onclick="currentSlide(2)"></span>
 <span class="dot" onclick="currentSlide(3)"></span>
</div>
<script>
var slideIndex = 1;
showSlides(slideIndex);
function plusSlides(n) {
 showSlides(slideIndex += n);
}
```

```
function currentSlide(n) {
 showSlides(slideIndex = n);
function showSlides(n) {
 var i;
 var slides = document.getElementsByClassName("mySlides");
 var dots = document.getElementsByClassName("dot");
 if (n > slides.length) {slideIndex = 1}
 if (n < 1) {slideIndex = slides.length}
 for (i = 0; i < slides.length; i++) {
   slides[i].style.display = "none";
 for (i = 0; i < dots.length; i++) {
   dots[i].className = dots[i].className.replace(" active", "");
 slides[slideIndex-1].style.display = "block";
 dots[slideIndex-1].className += " active";
</script>
</body>
</html>
```



PROGRAM #10 03-02-2022

Program for Countdown Timer

```
<!DOCTYPE HTML>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
p {
 text-align: center;
 font-size: 60px;
 margin-top: 0px;
}
</style>
</head>
<body>
<script>
// Set the date we're counting down to
var countDownDate = new Date("Jan 5, 2024 15:37:25").getTime();
// Update the count down every 1 second
var x = setInterval(function() {
// Get today's date and time
 var now = new Date().getTime();
 // Find the distance between now and the count down date
 var distance = countDownDate - now:
 // Time calculations for days, hours, minutes and seconds
 var days = Math.floor(distance / (1000 * 60 * 60 * 24));
 var hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
 var minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
 var seconds = Math.floor((distance % (1000 * 60)) / 1000);
 // Output the result in an element with id="demo"
 document.getElementById("demo").innerHTML = days + "d " + hours + "h "
 + minutes + "m" + seconds + "s";
 // If the count down is over, write some text
 if (distance < 0) {
  clearInterval(x);
  document.getElementById("demo").innerHTML = "EXPIRED";
 }
}, 1000);
</script>
</body>
</html>
```



670d 3h 55m 19s

PROGRAM #11 03-02-2022

XML program to represent the books

```
<?xml version="1.0" encoding="UTF-8"?>
<bookstore>
 <book category="cooking">
  <title lang="en">Everyday Italian</title>
  <author>Giada De Laurentiis</author>
  <year>2005</year>
  <price>30.00</price>
 </book>
 <book category="children">
  <title lang="en">Harry Potter</title>
  <author>J K. Rowling</author>
  <year>2005</year>
  <price>29.99</price>
 </book>
 <book category="web">
  <title lang="en">Learning XML</title>
  <author>Erik T. Ray</author>
  <year>2003</year>
  <price>39.95</price>
 </book>
</bookstore>
```

```
Result : XML Tree View

© positions ...

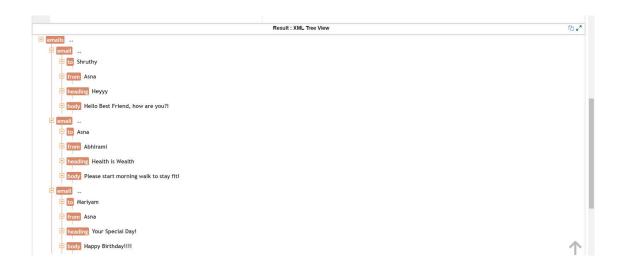
Gestagory: cooking

Gesta
```

PROGRAM #12 03-02-2022

Program to represent the XML E-mails

```
<?xml version="1.0" encoding="UTF-8"?>
<emails>
<email>
 <to>Shruthy</to>
 <from>Asna</from>
 <heading>Heyyy</heading>
 <body>Hello Best Friend, how are you?!</body>
</email>
<email>
 <to>Asna</to>
 <from>Abhirami</from>
 <heading>Health is Wealth</heading>
 <body>Please start morning walk to stay fit!</body>
</email>
<email>
 <to>Mariyam</to>
 <from>Asna</from>
 <heading>Your Special Day!</heading>
 <body>Happy Birthday!!!!</body>
</email>
</emails>
```



PROGRAM #13 03-02-2022

Program to represent the XML Plant Catalog

```
<CATALOG>
<PLANT>
<COMMON>Bloodroot</COMMON>
<BOTANICAL>Sanguinaria canadensis</BOTANICAL>
<ZONE>4</ZONE>
<LIGHT>Mostly Shady</LIGHT>
<PRICE>$2.44</PRICE>
<AVAILABILITY>031599</AVAILABILITY>
</PLANT>
<PLANT>
<COMMON>Columbine</COMMON>
<BOTANICAL>Aquilegia canadensis</BOTANICAL>
<ZONE>3</ZONE>
<LIGHT>Mostly Shady</LIGHT>
<PRICE>$9.37</PRICE>
<AVAILABILITY>030699</AVAILABILITY>
</PLANT>
<PLANT>
<COMMON>Marsh Marigold</COMMON>
<BOTANICAL>Caltha palustris</BOTANICAL>
<ZONE>4</ZONE>
<LIGHT>Mostly Sunny</LIGHT>
<PRICE>$6.81</PRICE>
<AVAILABILITY>051799</AVAILABILITY>
</PLANT>
<PLANT>
<COMMON>Cowslip</COMMON>
<BOTANICAL>Caltha palustris</BOTANICAL>
<ZONE>4</ZONE>
<LIGHT>Mostly Shady</LIGHT>
<PRICE>$9.90</PRICE>
<AVAILABILITY>030699</AVAILABILITY>
</PLANT>
<PLANT>
<COMMON>Dutchman's-Breeches</COMMON>
<BOTANICAL>Dicentra cucullaria</BOTANICAL>
<ZONE>3</ZONE>
<LIGHT>Mostly Shady</LIGHT>
<PRICE>$6.44</PRICE>
<AVAILABILITY>012099</AVAILABILITY>
</PLANT>
</CATALOG>
```

```
Result : XML Tree View
                                                                                                                                                                   @ v*
catalog ..
plant ..
common Bloodroot
       botanical Sanguinaria canadensis
       zone 4
       light Mostly Shady
       price $2.44
       availability 031599
      plant ..

common Columbine
       botanical Aquilegia canadensis
       zone 3
       light Mostly Shady
       price $9.37
       availability 030699
      plant ..
      common Marsh Marigold
```

```
plant ..

common Marsh Marigold
 botanical Caltha palustris
 zone 4
 light Mostly Sunny
 price $6.81
 availability 051799
plant ..
 common Cowslip
 botanical Caltha palustris
 zone 4
 light Mostly Shady
 price $9.90
 availability 030699
plant ..
 common Dutchman's-Breeches
 botanical Dicentra cucullaria
```

```
Tight Mostly Shady

price $6.44

availability 012099
```

PROGRAM #14 03-02-2022

AJAX Program to display an alert box after the load () method completes.

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
 $("button").click(function(){
  $("#div1").load("demo_test.txt", function(responseTxt, statusTxt, xhr){
   if(statusTxt == "success")
    alert("External content loaded successfully!");
   if(statusTxt == "error")
    alert("Error: " + xhr.status + ": " + xhr.statusText);
  });
 });
});
</script>
</head>
<body>
<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>
<button>Get External Content</button>
</body>
</html>
```



PROGRAM #15 03-02-2022

AJAX Program to hide the content using jQuery

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
 $("button").click(function(){
 $("p").hide(1000);
});
});
</script>
</head>
<body>
<button>Hide</button>
WELCOME TO MY NEW PAGE
CLICK ON THE ABOVE BUTTON TO HIDE THE CONTENT
</body>
</html>
```





PROGRAM #16 03-02-2022

AJAX Program to add a class on click of anchor tag jQuery and addClass() method.

```
<html>
 <head>
   <script src = "https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
   $(document).ready(function() {
    $("a").click(function() {
     $("a.active").removeClass("active");
     $(this).addClass("active");
    });
   });
   </script>
   <style>
   .active {
    font-size: 22px;
   </style>
 </head>
 <body>
   <a href="#" class="">One</a>
   <a href="#" class="">Two</a>
   Click any of the link above and you can see the changes.
 </body>
</html>
```

OUTPUT



One Tire

Click any of the link above and you can see the changes.

PROGRAM #17 03-02-2022

PHP program to print star triangle using for loop

```
<?php
for($i=0;$i<=5;$i++){
for($j=5-$i;$j>=1;$j--){
echo "* ";
}
echo "<br>";
}
```

```
      ← → C © Collabort/php1php
      Q L2 & D E

      III Apps of Gmail • YouTube Na Maps © imp1
      III Reading list

      * * * * * *

      * * * * *

      * * * * *

      * * * * *

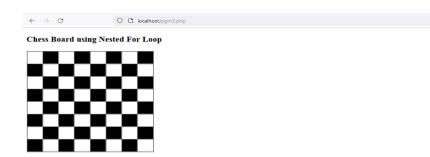
      * * * *

      * * * *
```

PROGRAM #18 03-02-2022

PHP program to print chess board.

```
<!DOCTYPE html>
    <html>
    <head>
<title></title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
<h3>Chess Board using Nested For Loop</h3>
<!-- cell 270px wide (8 columns x 60px) -->
    <?php
    for($row=1;$row<=8;$row++)
 {
    echo "";
    for($col=1;$col<=8;$col++)
    $total=$row+$col;
    if($total%2==0)
    echo "";
    }
     else
    echo "";
    echo "";
    ?>
</body>
</html>
```



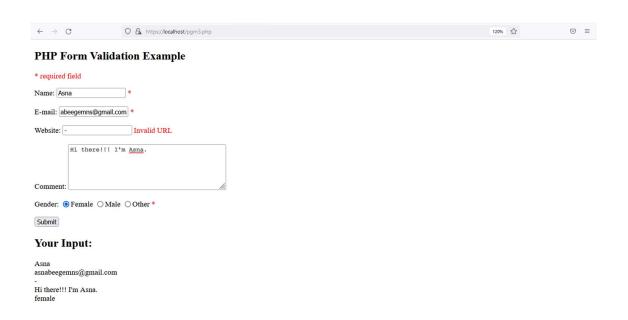
PROGRAM #19 03-02-2022

PHP program for Name, E-mail and URL validation.

```
<!DOCTYPE HTML>
<html>
<head>
<style>
.error {color: #FF0000;}
</style>
</head>
<body>
<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = $websiteErr = "";
$name = $email = $gender = $comment = $website = "";
if ($ SERVER["REQUEST_METHOD"] == "POST") {
 if (empty($_POST["name"])) {
       $nameErr = "Name is required";
 } else {
       $name = test input($ POST["name"]);
       // check if name only contains letters and whitespace
       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"]);
       // check if e-mail address is well-formed
       if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
       $emailErr = "Invalid email format";
       }
 }
 if (empty($ POST["website"])) {
       $website = "";
 } else {
       $website = test_input($_POST["website"]);
       // check if URL address syntax is valid
       if (!preg_match("\b(?:(?:https?|ftp):\/\|www\.)[-a-z0-9+&@#\/%?=~_|!:,.;]*[-a-z0-
9+&@#\/%=~ |]/i",$website)) {
       $websiteErr = "Invalid URL";
 }
```

```
if (empty($ POST["comment"])) {
      $comment = "";
 } else {
       $comment = test_input($_POST["comment"]);
 }
 if (empty($_POST["gender"])) {
      $genderErr = "Gender is required";
 } else {
       $gender = test input($ POST["gender"]);
 }
}
function test_input($data) {
 $data = trim($data);
 $data = stripslashes($data);
 $data = htmlspecialchars($data);
 return $data;
?>
<h2>PHP Form Validation Example</h2>
<span class="error">* required field</span>
<form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
 Name: <input type="text" name="name">
 <span class="error">* <?php echo $nameErr;?></span>
 <br><br>>
 E-mail: <input type="text" name="email">
 <span class="error">* <?php echo $emailErr;?></span>
 <br><br>>
 Website: <input type="text" name="website">
 <span class="error"><?php echo $websiteErr;?></span>
 Comment: <textarea name="comment" rows="5" cols="40"></textarea>
 <br><br>>
 Gender:
 <input type="radio" name="gender" value="female">Female
 <input type="radio" name="gender" value="male">Male
 <input type="radio" name="gender" value="other">Other
 <span class="error">* <?php echo $genderErr;?></span>
 <br><br><
 <input type="submit" name="submit" value="Submit">
</form>
<?php
```

```
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br/>';
echo $email;
echo "<br/>';
echo $website;
echo "<br/>';
echo $comment;
echo "<br/>';
echo $gender;
?>
</body>
</html>
```

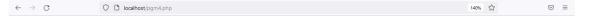


PROGRAM #20 03-02-2022

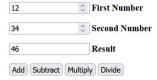
PHP program for Simple Calculator using Switch Case.

```
<!DOCTYPE html>
<head>
  <title>Simple Calculator Program in PHP - Tutorials Class</title>
<?php
$first num = $ POST['first num'];
$second_num = $_POST['second_num'];
$operator = $ POST['operator'];
$result = ";
if (is numeric($first num) && is numeric($second num)) {
      switch ($operator) {
      case "Add":
      $result = $first_num + $second_num;
      break;
      case "Subtract":
      $result = $first num - $second num;
      case "Multiply":
      $result = $first_num * $second_num;
      case "Divide":
      $result = $first num / $second num;
}
?>
<body>
       <div id="page-wrap">
  <h1>PHP - Simple Calculator Program</h1>
   <form action="" method="post" id="quiz-form">
      <q>>
       <input type="number" name="first_num" id="first_num" required="required"
value="<?php echo $first num; ?>" /> <b>First Number</b>
      >
      <input type="number" name="second num" id="second num" required="required"</pre>
value="<?php echo $second num; ?>" /> <b>Second Number</b>
      >
```

OUTPUT



PHP - Simple Calculator Program



PROGRAM #21 03-02-2022

PHP program to check whether a number is Armstrong or not using form.

```
<html>
     <body>
     <form method="post">
     Enter the Number:
     <input type="number" name="number">
     <input type="submit" value="Submit">
     </form>
     </body>
     </html>
     <?php
     if($_POST)
     //get the number entered
     $number = $_POST['number'];
     //store entered number in a variable
     $a = $number;
     sum = 0;
     //run loop till the quotient is 0
     while($a!=0)
     $rem = $a % 10; //find reminder
     if( $number == $sum )
     echo "Yes $number an Armstrong Number";
     }else
     echo "$number is not an Armstrong Number";
     }
     ?>
```

OUTPUT

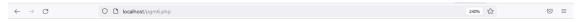


24 is not an Armstrong Number

PROGRAM #22 03-02-2022

PHP program of cookie.

OUTPUT



Sorry, cookie is not found!

Firstly cookie is not set. But, if you refresh the page, you will see cookie is set now.



Cookie Value: asna

PROGRAM #23 03-02-2022

PHP program to display the leap years between 1991 and 2022.

```
<?php
function isLeap($year)
{
    return (date('L', mktime(0, 0, 0, 1, 1, $year))==1);
}
//For testing
for($year=1991; $year<2022; $year++)
{
    If (isLeap($year))
    {
        echo "$year : LEAP YEAR<br />\n";
    }
    else
    {
        echo "$year : Not leap year<br />\n";
    }
}
```

PROGRAM #24 03-02-2022

PHP program to check whether the following strings are palindrome or not.

```
<?php
function Palindrome($MyString) {
 $1 = 0;
 $r = strlen($MyString) - 1;
 $flag = 0;
 while(r > 1)
  if ($MyString[$I] != $MyString[$r]){
   $flag = 1;
   break;
  }
  $1++;
  $r--;
 if (\$flag == 0){
  echo $MyString." is a Palindrome string.\n";
  echo $MyString." is not a Palindrome string.\n";
}
Palindrome("radar");
Palindrome("rubber");
Palindrome("malayalam");
?>
```

OUTPUT



radar is not a Palindrome string. rubber is not a Palindrome string. malayalam is not a Palindrome string.

PROGRAM #25 03-02-2022

PHP program for insertion sort.

```
<?php
function insertionsort(&$Array, $n) {
 for($i=0; $i<$n; $i++) {
  $curr = $Array[$i];
  j = i - 1;
  while($j >= 0 && $curr < $Array[$j]) {
   Array[j + 1] = Array[j];
   $Array[$j] = $curr;
   $j = $j - 1;
  }
 }
function PrintArray($Array, $n) {
for (\$i = 0; \$i < \$n; \$i++)
  echo $Array[$i]." ";
 echo "\n";
}
MyArray = array(1, 10, 23, 50, 4, 9, -4);
$n = sizeof($MyArray);
echo "Original Array\n";
PrintArray($MyArray, $n);
insertionsort($MyArray, $n);
echo "\nSorted Array\n";
PrintArray($MyArray, $n);
?>
```

OUTPUT



Original Array 1 10 23 50 4 9 -4 Sorted Array -4 1 4 9 10 23 50

PROGRAM #26 03-02-2022

PHP program for merge sort.

```
<?php
function mergesort(&$Array, $left, $right) {
  if ($left < $right) {</pre>
     mid = \left( \frac{\sin(\pi - \sin(\pi - ))))))))))))))))
     mergesort($Array, $left, $mid);
     mergesort($Array, $mid+1, $right);
     merge($Array, $left, $mid, $right);
  }
function merge(&$Array, $left, $mid, $right) {
  $n1 = $mid - $left + 1; //no of elements in LeftArray
  $n2 = $right - $mid; //no of elements in RightArray
  $LeftArray = array fill(0, $n1, 0);
  $RightArray = array_fill(0, $n2, 0);
  for(\$i=0; \$i < \$n1; \$i++) {
     $LeftArray[$i] = $Array[$left + $i];
  }
  for(\$i=0; \$i < \$n2; \$i++) {
     RightArray[i] = Array[mid + i + 1];
  $x=0; $v=0; $z=$left;
  while(x < n1 \& y < n2) {
     if($LeftArray[$x] < $RightArray[$y]) {</pre>
        Array[$z] = LeftArray[$x];
        $x++;
     }
     else {
        $Array[$z] = $RightArray[$y];
        $y++;
     }
     $z++;
  while($x < $n1) {
      Array[$z] = LeftArray[$x];
       $x++;
      $z++;
  while(y < n2) {
     $Array[$z] = $RightArray[$y];
     $y++;
     $z++;
```

```
function PrintArray($Array, $n) {
  for ($i = 0; $i < $n; $i++)
    echo $Array[$i]." ";
  echo "\n";
}
$MyArray = array(10, 1, 23, 50, 4, 9, -4);
$n = sizeof($MyArray);
echo "Original Array\n";
PrintArray($MyArray, $n);

mergesort($MyArray, 0, $n-1);
echo "\nSorted Array\n";
PrintArray($MyArray, $n);
?>
```

OUTPUT



Original Array 10 1 23 50 4 9 -4 Sorted Array -4 1 4 9 10 23 50

PROGRAM #27 03-02-2022

Program to represent JSON array.

PROGRAM #28 03-02-2022

Program to represent JSON array having objects.

```
{"menu":
{
    "id": "file",
    "value": "File",
    "popup": {
        "menuitem": [
            {"value": "New", "onclick": "CreateDoc()"},
            {"value": "Open", "onclick": "OpenDoc()"},
            {"value": "Save", "onclick": "SaveDoc()"}
    ]
    }
}}
```

PROGRAM #29 03-02-2022

Program to represent PHP JSON String.

```
<?php
$json = '{"a":1,"b":2,"c":3,"d":4,"e":5}';
var_dump(json_decode($json, true));//true means returned object will be converted into associative
array
?>
```

