



JAMAL MOHAMED COLLEGE

(AUTONOMOUS) TIRUCHIRAPPALLI.

DEPARTMENT OF COMPUTER SCIENCE &IT
WEB DEVELOPMENT TOOLS LAB
MANUAL

PREPARED BY

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Department of CS&IT (SF-Women)

Semester	Course Code	CourseCategory	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
I	23PCS1CC4P2	Core - IV (b)	3	2	10	40	50
Course Title Web Development Tools Lab – Practical							

1. Create a HTML form for building your resume. Apply inline, internal, and external CSS in the form.
2. Design a web site using HTML and DHTML. Use Basic text Formatting&Images.
3. Write a JavaScript program to list the properties of a JavaScript object.
4. Write a JavaScript program to create a registration form and validate the username and password fields.
5. Write a HTML program to draw graphics on webpage using <canvas> element.
6. Write a simple PHP program for database connectivity.
7. Write a program to display session id, creation time and last access time of the web page using PHP.
8. Write a jQuery program to get a single element from a selection of elements of a HTML page.
9. Write a jQuery program to attach a click and double-click events to all elements.
10. Write a jQuery program to get the value of a textbox.
11. Write a program to convert PHP object in to JSON.
12. Write a program to extract data from MySQL table and display as JSON.

Course Outcomes		
Upon successful completion of this course, the students will be able to:		
CONo.	CO Statement	Cognitive Level (K-Level)
CO1	Demonstrate the concepts of CSS, JavaScript, PHP, jQuery, AJAX and JSON	K2
CO2	Utilize JavaScript with HTML and CSS to create interactive web applications.	K3
CO3	Inspect JavaScript frameworks and light weight format which facilitate the developers to focus on core features.	K4
CO4	Prove the importance of PHP, jQuery and JSON	K5
CO5	Develop Server-Side Scripts using PHP to generate and display the contents dynamically.	K6

Ex.No:01 CREATE A HTML FORM FOR BUILDING YOUR RESUME

```
<!DOCTYPE html>

<html>

<head>

<title>Resume Builder</title>

<style>

.success-message {

display: none;

color: blue;

margin-top: 10px;

}

</style>

<script>

function showSuccessMessage() {

document.getElementById("success-message").style.display="block";

}

</script>

<!--Inline css-->

<style>

.form-container {

max-width: 500px;

margin: 0 auto;

padding: 20 px;

}


```

```
.form-container h1 {  
text-align: center;  
margin-bottom: 20px;  
}
```

```
.form-container label {  
display: block;  
margin-bottom: 10px;  
}
```

```
.form-container input[type="text"],  
.form-container textarea {  
width: 100%;  
padding: 10px;  
margin-bottom: 20px;  
}
```

```
.form-container button {  
background-color: #4CAF50;  
color: white;  
padding: 10px 20px;  
border: none;  
cursor: pointer;  
}
```

```
</style>
```

```
<!--Internal css-->
```

```
<style>
```



```

.form-container input[type="text"]:focus,
.form-container textarea:focus {
border: 2px solid #4CAF50;
}
</style>
<!--External css-->
<link rel="stylesheet" href="style/sample.css">
</head>
<body>
<div class="form-container">
<h1>Resume Builder</h1>
<form onsubmit="showSuccessMessage();return false;">
<label for="name"> Name:</label>
<input type="text" id="name" name="name" placeholder="your name" required>
<label for="email"> Email:</label>
<input type="text" id="email" name="email" placeholder="your email" required>
<label for="phone"> Phone:</label>
<input type="text" id="phone" name="phone" placeholder="your phone number"
required>
<label for="summary"> Summary:</label>
<textarea id="summary" name="summary" placeholder="A brief summary of your skill
and experience"></textarea>
<button type="submit"> Submit</button>
</form>
<p id="success-message" class="success-message">Data Submitted Successfully!</p>

```

```
</div>
```

```
</body>
```

```
</html>
```

Style sample

```
.form-container {  
background-color: grey;  
padding: 30px;  
border-radius: 50px;  
}  
.form-section {  
margin-bottom: 50px;  
}  
label {  
display: block;  
font-weight: bold;  
margin-bottom: 5px;  
}  
input[type="text"],  
input[type="email"],  
input[type="tel"],  
textarea {  
width: 100%;  
padding: 8px;  
border: 1px solid #ccc;
```



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```
border-radius: 4px;
}
button[type="submit"]
{
background-color:blue;
color: white;
padding: 10px 20px;
border: none;
border-radius: 4px;
cursor: pointer;
}
```

OUTPUT:



Resume Builder

Name:

Email:

Phone:

Summary:

Data Submitted Successfully!

Ex.No:02

DESIGN A WEBSITE USING HTML AND DHTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>My Simple Web Page</title>
```

```
<style>
```

```
body{
```

```
font-family:Arial,sans-serif;
```

```
line-height:1.6;
```

```
margin:20px;
```

```
}
```

```
h1{
```

```
color:red;
```

```
}
```

```
p{
```

```
color:blue;
```

```
}
```

```
</style>
```

```
</head>
```

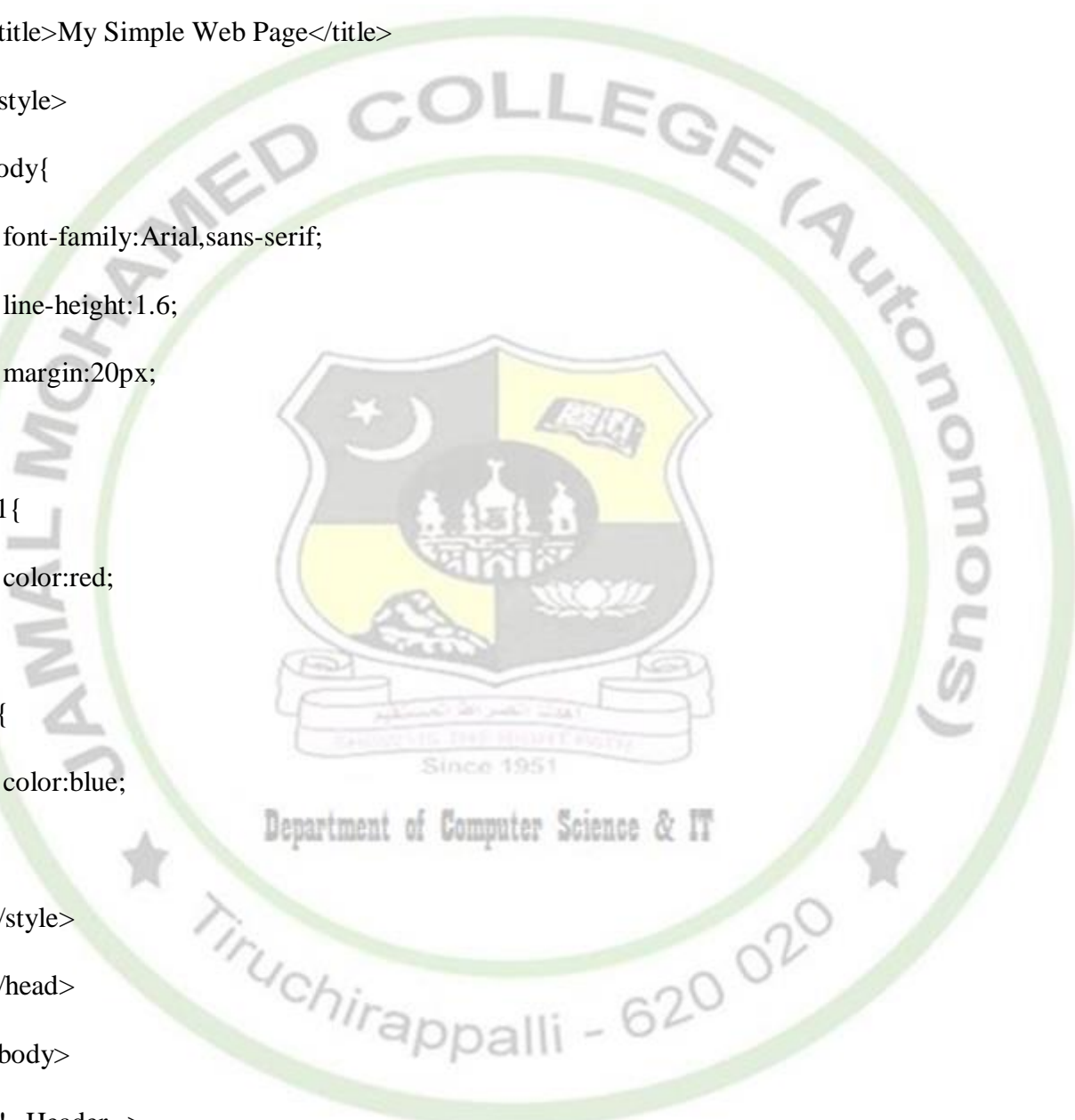
```
<body>
```

```
<!--Header-->
```

```
<h1>Welcome to My Web Page</h1>
```

```
<!--Paragraph with basic text formatting-->
```

```
<p>This is a sample web page designed using HTML and DHTML.</p>
```



<p>We can use various tags to format the text such
asbolditalicand<u>underline</u></p>

<p>You can also use lists:</p>

item1

item2

item3

<!--Inserting an image-->

<p>Here's an image of beautiful landscape:</p>

<center></center>

<!--DHTML - Simple interactive element using Javascript-->

<p>Click the button below to see a magicMessage:</p>

<button onclick="showMagicMessage()">Click Me!</button>

<p id="magicMessage"style="display:none; color:green;">Hi,Welcome to Jamal Mohamed
College!</p>

<!--JavaScript to show the magic message when the button is clicked-->

<script>

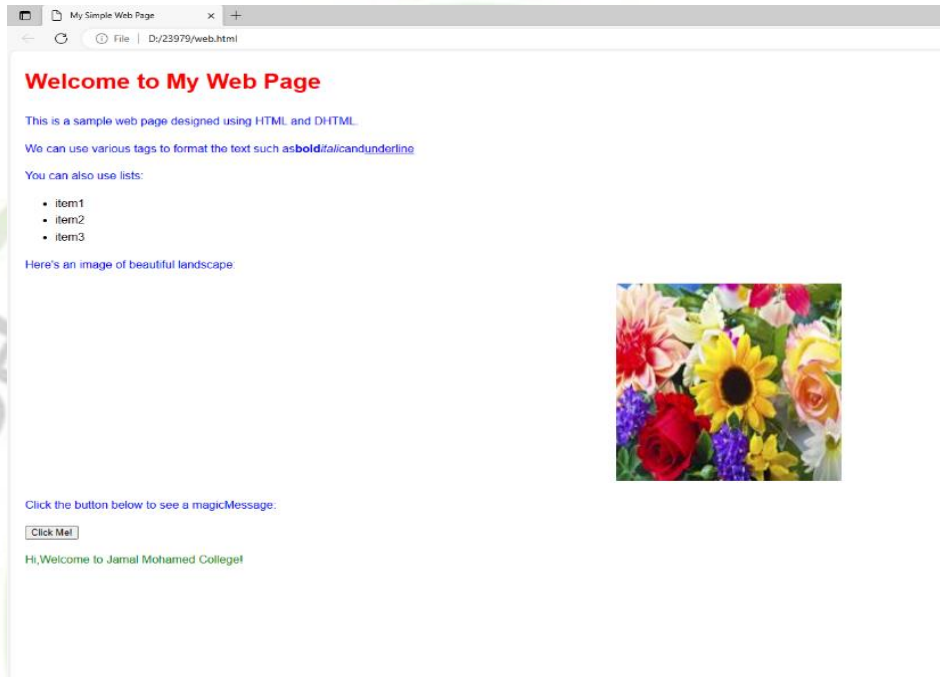
```
function showMagicMessage(){  
var messageElement=document.getElementById("magicMessage");  
messageElement.style.display="block";  
}
```

</script>

</body>

</html>

OUTPUT:



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Ex.No:03

**WRITE A JAVASCRIPT PROGRAM TO LIST THE
PROPERTIES OF A JAVASCRIPT OBJECT**

```
<!DOCTYPE html>

<html>

<head>

<title>Object Properties</title>

</head>

<body>

<h1>Object Properties</h1>

<table id="propertiesTable">

<thead>

<tr>

<th>property Name</th>

<th>property Value</th>

</tr>

</thead>

<tbody>

</tbody>

</table>

<script src="script.js"></script>

</body>

</html>
```



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script.js

```
document.addEventListener('DOMContentLoaded',function() {

const person= {

name:'Thasu',

age:21,

occupation:'Software Developer'

};

const tableBody=document.querySelector('#propertiesTable tbody');

function addTableRow(propertyName,propertyValue) {

const row=document.createElement('tr');

const nameCell=document.createElement('td');

nameCell.textContent=propertyName;

row.appendChild(nameCell);

const valueCell=document.createElement('td');

valueCell.textContent=propertyValue;

row.appendChild(valueCell);

tableBody.appendChild(row);

}

for(const property in person) {

if(person.hasOwnProperty(property)) {

addTableRow(property,person[property]);

}

}

});
```

OUTPUT:

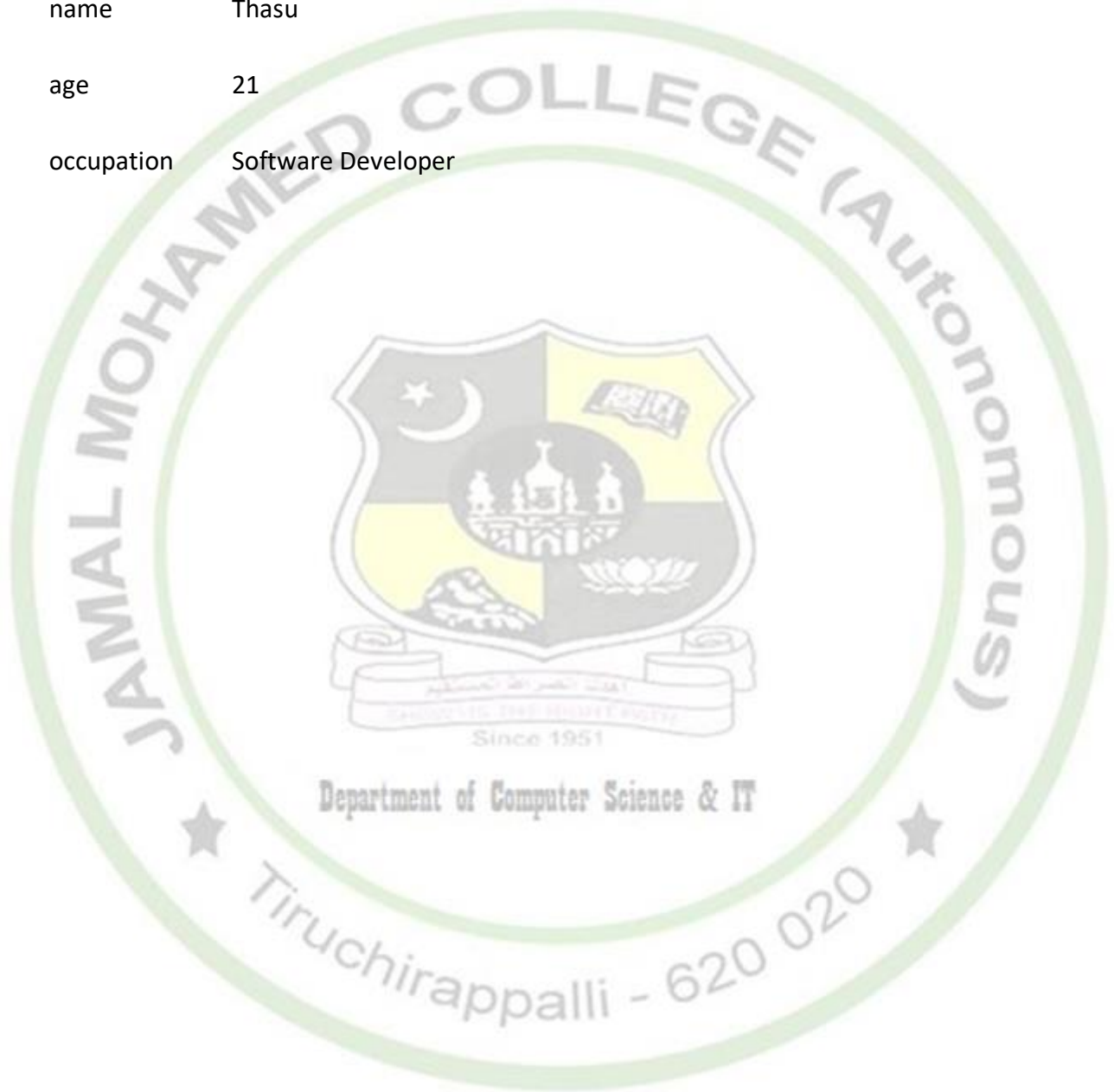
Object Properties

property Name property Value

name Thasu

age 21

occupation Software Developer



Ex.No:04

**WRITE A JAVASCRIPT PROGRAM TO CREATE A
REGISTRATION FORM**

```
<!DOCTYPE html>

<html>

<head>

</head>

<body>

<h2>Registration Form</h2>

<form id="registrationForm">

<div>

<label for="username">Username:</label>

<input type="text" id="username" name="username">

<span id="usernameError" class="error"></span>

</div>

<div>

<label for="password">Password:</label>

<input type="password" id="password" name="password">

<span id="passwordError" class="error"></span>

</div>

<button type="submit">Register</button>

</form>

<script>

document.getElementById("registrationForm").addEventListener("submit",function(event)

{
```



```

event.preventDefault();//prevent form submission

//clear previous error messages

document.getElementById("usernameError").textContent="";

document.getElementById("passwordError").textContent="";

//Get the form values

var username=document.getElementById("username").value;
var password=document.getElementById("password").value;

//varidate username
if(username.trim()=== "")
{
document.getElementById("usernameError").textContent="username is required";
}

//validate password
if(password.trim()=== "")
{
document.getElementById("passwordError").textContent="pasword is required";
}

else if(password.length<6)
{ document.getElementById("passwordError").textContent="pasword should be atleast 6
characters long";
}

//It there are no error,submit the form

if(username.trim()!== "" && password.trim()!== "" && password.length>=6)
{
alert("Registration successful!");
}

```



```
//here ,you can perform additional actions,such as string the form data to a server alter  
("registration successfully!");
```

```
document.getElementById("registrationForm").reset();//reset the form
```

```
}
```

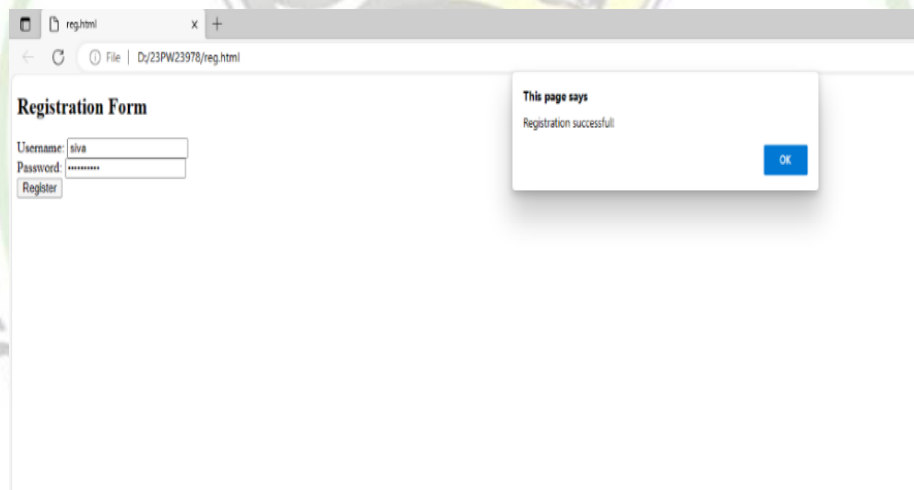
```
});
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



**Ex.No:05 WRITE A HTML PROGRAM TO DRAW GRAPHICS ON
WEB PAGE USING <CANVAS> ELEMENT**

```
<!DOCTYPE html>

<html>

<head>

<title>Canvas Graphics</title>

<style>

canvas {

border: 1px solid black;

}

</style>

</head>

<body>

<canvas id="myCanvas" width="400" height="400">

</canvas>

<script>

var canvas=document.getElementById("myCanvas");

var context=canvas.getContext("2d");

context.fillStyle="red";

context.fillRect(50,50,100,100);

context.beginPath();

context.arc(200,200,50,0,2*Math.PI);

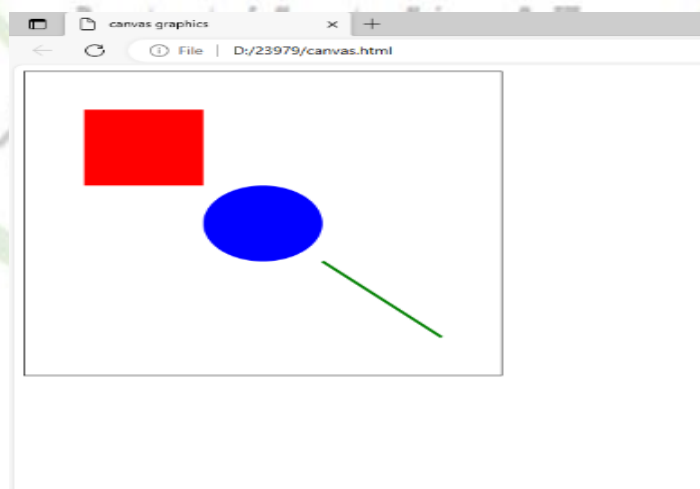
context.fillStyle="blue";

context.fill();
```



```
context.beginPath();  
context.moveTo(250,250);  
context.lineTo(350,350);  
context.strokeStyle="green";  
context.lineWidth=3;  
context.stroke();  
</script>  
</body>  
</html>
```

OUTPUT:



Ex.No:06

**WRITE A SIMPLE PHP PROGRAM FOR
DATABASE CONNECTIVITY**

```
<html>
<head>
<title>
create table and insert record</title>
</head>
<form method="POST">
Roll Number:<input type="number" name="r">
Name:<input type="text" name="n">
Age:<input type="text" name="a">
<input type="submit" value="submit">
</form>
</html>
<?php
if($_POST)
{
$r=$_POST['r'];
$n=$_POST['n'];
$a=$_POST['a'];

$con=mysqli_connect('localhost','studentg','jamal','basics')or die("Database Connection
Failed:".mysqli_connect_error());

$query="INSERT INTO studentdetails1(rollno,name,age)VALUES($r,$n,$a)";

$result=mysqli_query($con,$query)or die("check your:$query");

mysqli_close($con);
```

}

?>

OUTPUT:

The image displays two screenshots from a Firefox Web Browser. The top screenshot shows a web form at localhost/record.php with input fields for Roll Number, Name, and Age, and a submit button. The bottom screenshot shows the phpMyAdmin interface for a database named 'basics', displaying the 'studentdetails1' table with 4 rows of data.

Roll Number: Name: Age: submit

phpMyAdmin

Showing rows 0 - 4 (4 total. Query took 0.0003 seconds.)

```
SELECT * FROM studentdetails1
```

rollno	name	age
2378	thasu	21
2379	priya	20
2380	preethi	20
2381	priya	20
2382	shafin	20

Query results operations

Bookmark this SQL query

Label: Let every user access this bookmark

bookmark this SQL query

**Ex.No:07 WRITE A PROGRAM TO DISPLAY SESSION ID, CREATION
TIME & LAST ACCESS TIME OF THE WEB PAGE USING PHP**

```
<!DOCTYPE html>

<html>

<head>

<title>Session Infromation</title>

</head>

<body>

<h1>SESSION INFORMATION</h1>

<?php
session_start();
$sessionId=session_id();
if(!isset($_SESSION['creation_time']))
{
$_SESSION['creation_time']=time();
}
$_SESSION['last_access_time']=time();
?>

<p><strong>SESSION ID:</strong><?php echo $sessionId; ?></p>

<p><strong>SESSION CREATION TIME:</strong><?php echo date('Y-m-d
H:i:s',$_SESSION['creation_time']);?></p>

<p><strong>SESSION LAST ACCESS TIME:</strong><?php echo date('Y-m-d
H:i:s',$_SESSION['last_access_time']);?></p>

</body>

</html>
```

OUTPUT:

SESSION INFORMATION

SESSION ID:cd160d0ddeca0f85c3de1dd92ef8296d

SESSION CREATION TIME:2023-09-20 11:54:29

SESSION LAST ACCESS TIME:2023-09-20 11:54:29



**Ex.No:08 WRITE A JQUERY PROGRAM TO ATTACH A CLICK AND
DOUBLE-CLICK EVENTS TO ALL ELEMENTS**

```
<!DOCTYPE html>

<html>

<head>

<title>Click and Double-Click Events</title>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">

</script>

<script>

$(document).ready(function() {

$(".clickable_ele").bind("click",function() {

$("#<h4>Welcome to Jamal Mohamed College</h4>")

.appendTo(".res");

});

$("#clickable_ele1").bind("dblclick",function() {

$("#<h4>M.Sc-Computer Science</h4>")

.appendTo(".res");

});

});

</script>

</head>

<body>

<div class="clickable_ele">
```

Single Click

```
</div>
```

```
<div class="clickable_ele1">
```

Double Click

```
</div>
```

```
<div class="res"></div>
```

```
</body>
```

```
</html>
```

OUTPUT:

Single Click

Double Click

Welcome to Jamal Mohamed College

M.Sc-Computer Science



Ex.No:09

WRITE A JQUERY PROGRAM TO GET THE VALUE OF A

TEXTBOX

```
<!DOCTYPE html>

<html>

<head>

<title>Get TextBox Value</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<script>

$(document).ready(function(){

//Event handler for a button click

$("#getValueButton").click(function(){

//Get the value of the textbox

var name=$("#myTextbox1").val();

var rollno=$("#myTextbox2").val();

//Display the value in an alert

alert("Student Name:"+name);

alert("Roll Number:"+rollno);

});

});

</script>

</head>

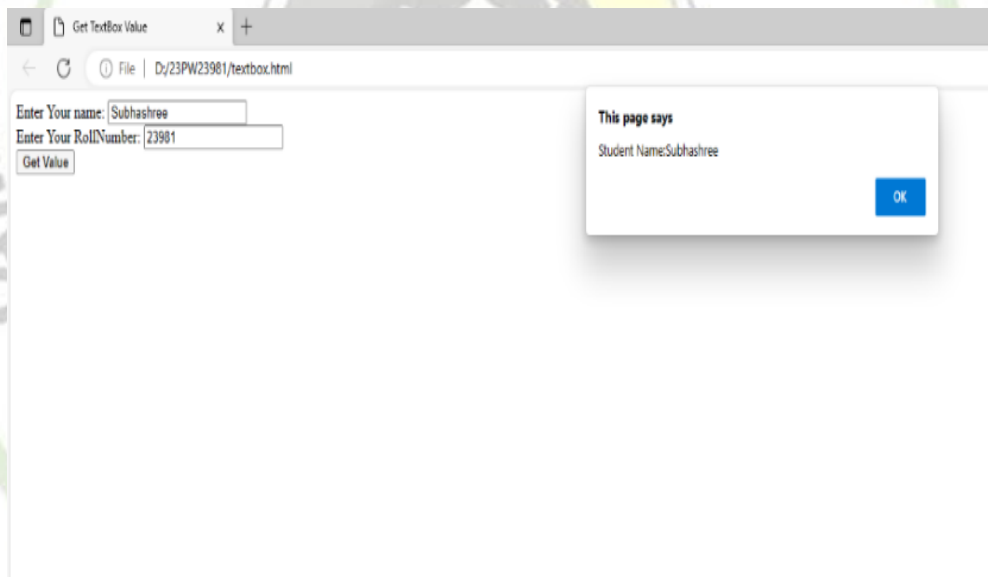
<body>

<!--Sample HTML content-->

<label for="my Textbox">Enter Your name:</label>
```

```
<input type="text" id="myTextbox1"/>
<br>
<label for="myTextbox">Enter Your RollNumber:</label>
<input type="text" id="myTextbox2"/>
<br>
<button id="getValueButton">Get Value</button>
</body>
</html>
```

OUTPUT:



Ex.No:10

WRITE A PROGRAM TO CONVERT PHP OBJECT IN TO

JSON

html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>PHP Object to JSON Converter</title>
```

```
</head>
```

```
<body>
```

```
<h1>Convert PHP Object to JSON</h1>
```

```
<form action="convert.php" method="post">
```

```
<label for="name">Name:</label>
```

```
<input type="text" name="name" id="name" required> <br>
```

```
<label for="age">Age:</label>
```

```
<input type="number" name="age" id="age" required> <br>
```

```
<label for="city">City:</label>
```

```
<input type="text" name="city" id="city" required> <br>
```

```
<input type="submit" value="Convert to JSON">
```

```
</form>
```

```
</body>
```

```
</html>
```

php

```
<?php
```

```
if($_SERVER["REQUEST_METHOD"]=="POST")
```

```
{
```

```
$name=$_POST["name"];
```

```
$age=$_POST["age"];
```

```
$city=$_POST["city"];
```

```
$person=new stdClass();
```

```
$person->name=$name;
```

```
$person->age=$age;
```

```
$person->city=$city;
```

```
$jsonString=json_encode($person);
```

```
if($jsonString!==false)
```

```
{
```

```
echo"<h1>JSON Result:</h1>";
```

```
echo"<pre>$jsonString</pre>";
```

```
}else {
```

```
echo"JSON encoding failed";
```

```
}
```

```
}
```

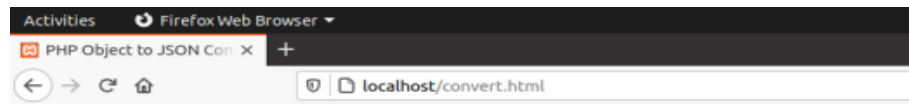
```
?>
```



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OUTPUT:

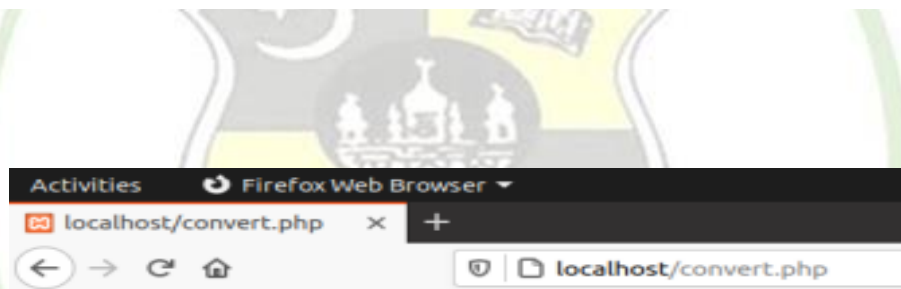


Convert PHP Object to JSON

Name:

Age:

City:



JSON Result:

```
{"name": "Thasu", "age": "20", "city": "Trichy"}
```