

Lab cycle 1

CO1: Explore markup languages features and create interactive web pages using them.

Program # 1

1. Create a simple HTML webpage for your CV to showcase the use of text formatting, image embedding, tables, Lists and links within a page and link to another web page.

PROGRAM CODE:

```
<html>

<head>

<title>My cv</title>

</head>

<body>



<h1>SUHANA BAIJAN P A</h1>

<p><b>MCA</b>

</p>

<section><p>+91 9249250822</p>

<p>suhanabaijan2002@gmail.com</p>

</section>

<hr>

<section>

<p>A Computer Science graduate with proven analytical skills and an ability to learn new technologies quickly.<br> Eager to support organizations in creating innovative software solutions.<br>Developed a Location-based garbage management system as a final project in university.</p>

</section>

<div id="section1">

<h2><u>EDUCATIONAL QUALIFICATIONS</u></h2>
```

| LEVEL | NAME OF INSTITUTION | BOARD | AGGREGATE PERCENTAGE | YEAR OF COMPLETION |
|--|-------------------------------|--------------|----------------------|--------------------|
| 10 | CRHS KUTTIPOZHA | KERALA BOARD | 100 | 2018 |
| 12 | GHSS N.PARAVUR | KERALA BOARD | 96 | 2020 |
| Bachelor of Science in Computer Science | UNION CHRISTIAN COLLEGE ALUVA | MGU | 80 | MARCH 2023 |

ACHIEVEMENTS

- Graduated with a CGPA of 7.77-Grade A
- Certificate Of Completion from Coursera- Introduction to TCP/IP

```
<li>Certificate Of Completion from Greatlearning-Ethical Hacking</li>
</ol>
</section><br>
<section><h2><u>PROJECTS UNDERTAKEN</u></h2>
<ul style="list-style-type:square">
<li><b><u>Mini-Project</u></b>: Designed and developed a website on placement
management system named as <b>ASPIRER</b></li><br>
<li><b><u>Main-Project</u></b>: Designed and developed a Mobile Application
using Android with JAVA on location-based garbage management system named as
<b>TRASH CONNECT</b></li>
</ul>
</section>
<a href="cv2.html">Next</a><br>
<a href="#section1">qualification</a>
</body>
</html>
```

Next page – cv2.html

```
<html>
<head>
<title>My cv</title>
</head>
<body><h2><U>Hobbies</U></h2>
<ul>
<li>Reading</li>
<li>Writing</li>
<li>Listening Music</li>
</ul>
<h2><u>Hard Skills</u></h2>
<ul>
<li>C</li>
```

C++

JAVA

SQL

HTML,CSS,&JAVASCRIPT

<H2><u>Soft Skills</u></H2>

Collaboration

Good Communication

Quick Learner

<p>I hereby declare that all the above furnished informations are true to the best of my knowledge.</p>

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</body>

</html>

OUTPUT:

SUHANA BAIJAN P A

MCA
 +91 9249250822
 suhanabajan2002@gmail.com

A Computer Science graduate with proven analytical skills and an ability to learn new technologies quickly.
 Eager to support organizations in creating innovative software solutions.
 Developed a Location-based garbage management system as a final project in university.

EDUCATIONAL QUALIFICATIONS

| LEVEL | NAME OF INSTITUTION | BOARD | AGGREGATE PERCENTAGE | YEAR OF COMPLETION |
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ACHIEVEMENTS

1. Graduated with a CGPA of 7.77-Grade A
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PROJECTS UNDERTAKEN

- **Mini-Project:** Designed and developed a website on placement management system named as **ASPIRER**
- **Main-Project:** Designed and developed a Mobile Application using Android with JAVA on location-based garbage management system named as **TRASH CONNECT**

[Next qualification](#)

Hobbies

- Reading
- Writing
- Listening Music

Hard Skills

- C
- C++
- JAVA
- SQL
- HTML,CSS,&JAVASCRIPT

Soft Skills

- Collaboration
- Good Communication
- Quick Learner

I hereby declare that all the above furnished informations are true to the best of my knowledge.

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Program # 2

2. Create a webpage of two parts,

Part1: MCA student registration form

Part2: Webpage of the college

Use frames and various form elements to create the webpage.

PROGRAM CODE:

```
<!DOCTYPE html>

<html>

<head>

    <title>frameset</title>

</head>

<frameset cols="50%,50%",scrolling="no" noresize>

    <frame src="register.html"></frame>

    <frame src="mits.html"></frame>

</frameset>

<body>

</body>

</html>
```

Part 1: register.html

```
<html>

<head>

<title>registration form</title>

</head>

<body>

<form method="POST">

<h1 style="color: crimson;font-weight: bold;"><center>Registration Form</center></h1>

Name:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text"
name="name" placeholder="Full name"><br><br>
```

Age: <input type="number" name="Age">

Date of Birth: <input type="date" name="">

Email:

Gender: <input type="radio" name="gender" value="male">Male

☐Female

Permanent Address: <textarea rows="5" cols="50" name="description" placeholder="Enter your details here...">

</textarea>

Communication Address: <textarea rows="5"
cols="50" name="description" placeholder="Enter your details here...">

Pin:

District: <input type="text" name="district">

State: <input type="text" name="state">

Phone: <input type="number"
name="phone">

<label for="course">Educational

Qualification: <select id="course" name="course">

<option value="bca">BCA</option>

<option value="cs">BSc CS</option>

BSc Physics

BSc Maths

<option value="bcom">BCom</option>

<option value="ba">BA</option>

Pass year: <input type="number" name="year">

Institution: <input type="text" name="college">


```
University:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<select>
<option value="mg">Mahatma Gandhi University,Kottayam</option>
<option value="kerala">Kerala University</option>
<option value="kannur">Kannur University</option>
<option value="calicut">Calicut University</option>
</select><br><br>
Aggregate CGPA:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="number"
name="cgpa"><br><br>
Subsidiary Papers:
<input type="checkbox" name="subsidiary" value="on">Physics
<input type="checkbox" name="subsidiary" value="on">Maths
<input type="checkbox" name="subsidiary" value="on">Chemistry<br><br>
password:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="password" id="pwd"
name="pwd">
Re-type password:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="password"
id="pwd" name="pwd"><br><br>
<center><input type="submit" name="submit" value="submit"></center>
</form>
</body>
</html>
```

Part 2: mits.html

```
<!DOCTYPE html>
<html>
<head>
<title>mits</title>
<style type="">
p{
text-align: left;
}
.footer{
```



```
width: 100%;
height: 100px;
background-color: crimson;
}.foot{
font-family: Times New Roman;
font-size: 15px;
text-align: left;
font-weight: bold;
color: #fff;
}
u{
    color: crimson;
}
</style>
<link rel="stylesheet" type="text/css" href="mgits.css">
</head>
<body>
<div class="container">
<div class="header">
<div class="left">
<ul>
<li><a href="#login.html">Home</a></li>
<li><a href="/signup.html">People</a></li>
<li><a href="/home.html">Highlights</a></li>
</ul>
</div>
<div class="right">
<p>DEPARTMENT OF COMPUTER APPLICATIONS</p></div></div>
<div class="main">
```

Department Profile

Muthoot Institute of Technology and Science (MITS) Puthencruz was established in May 2013. The Department of Computer Applications (CA) is the youngest in the MITS family. The department offers the postgraduate programme, Master of Computer Applications with an annual intake of 60 students. The department boasts a rich knowledge pool of faculty who are well-trained and efficient. Holistic Education is a unique course through which students are given training on personal, interpersonal and societal skills to instill desirable qualities as both an employee and global citizen. The overall growth of students, along with academia is our top priority. We provide excellent academic ambience in curricular, co-curricular and extracurricular initiatives, facilities and teaching-learning experiences.

Message from HoD

The Department of Computer Applications is dedicated to ensuring great careers for students joining to pursue a Postgraduate degree. The excellent infrastructure, Training and Placement Cell and teaching faculty of the best kind ensure quality education with a key to assuring a bright future for the students. The department as a team constantly strives to thrive and excel in the world of Computer Applications.

We offer a good number of certificate courses and training programmes periodically for providing a wide spectrum of options to the students to pursue their interests. Students are encouraged to undertake various research projects, internships and competitions.

The state-of-the-art infrastructure consisting of well-equipped laboratories, high-speed internet connection, high-end computing facilities, smart classrooms and library access to a wide range of electronic databases, e-journals, and online books which in turn assist the productivity of the students are the other highlights of the department. We foster, promote and sustain education and provide a holistic environment to students. Our department sensitizes the students to serve for environmental, social and ethical needs of society through lifelong learning.

We invite you to be part of this unique transformative experience with MITS.

MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE

Varikoli.P.O,Puthencruz

COLLEGE CODE : MUT

Affiliated to APJ Abdul Kalam Technological University

Approved by AICTE

info@mgits.ac.in | 0484-2883300/0484-2732100/111

Dept. of Computer Applications

Relentless passion for excellence...

(Promoted by The Muthoot Group)

</p></div></div></body></html>

mgits.css

.header{

background-color: crimson;

width: 100%;

height: 100px;

}

body{

margin: 0;

}

.left{

width: 50%;

padding-top: 10PX;

float: left;

}

ul{

list-style-type:none;

float:left;

margin-top:25px;

}

ul li{

display:inline-block;

}

ul li a{

text-decoration:none;

color:white;

padding:5px 15px;

```
font-size: 20px;
}
.text{
font-family: inherit;
font-weight: bold;
font-size: 35px;
margin-left: 100px;
color: #fff;
}
.right{
width: 50%;
float: left;
font-family: inherit;
color: #FFF;
font-size: 25px;
font-weight: bold;

}
.main{
font-family: Times new roman;
}
.para{
text-align: left;
font-size: 18px;
}
.heading{
text-align: center;
color: crimson;
}
```

OUTPUT:

The screenshot shows a web browser window with two main sections. On the left is a 'Registration Form' with various input fields. On the right is a 'Department Profile' page for the Department of Computer Applications at Muthoot Institute of Technology and Science (MITS).

Registration Form Fields:

- Name: SUHANA BAIJAN P A
- Age: 21
- Date of Birth: 03-03-2002
- Email: suhanabaijan2002@gmail.com
- Gender: ☐ Male ☒ Female
- Permanent Address: Puthenparamb (H), South Aduvassery P.O, Kunnukara
- Communication Address: Puthenparamb (H), South Aduvassery P.O, Kunnukara
- Pin: 683578
- District: Ernakulam State: Kerala
- Phone: 9249250822
- Educational Qualification: BSc CS
- Pass year: 2023 Institution: UC College Aluva
- University: Mahatma Gandhi University, Kottayam
- Aggregate CGPA: 7.77
- Subsidiary Papers: ☒ Physics ☒ Maths ☐ Chemistry
- password: [masked] Re-type password: [masked]
- submit button

Department Profile Page:

- Navigation: Home, People, Highlights
- Header: DEPARTMENT OF COMPUTER APPLICATIONS
- Section: Department Profile
- Text: Muthoot Institute of Technology and Science (MITS) Puthencruz was established in May 2013. The Department of Computer Applications (CA) is the youngest in the MITS family. The department offers the postgraduate programme, Master of Computer Applications with an annual intake of 60 students. The department boasts a rich knowledge pool of faculty who are well-trained and efficient. Holistic Education is a unique course through which students are given training on personal, interpersonal and societal skills to instill desirable qualities as both an employee and global citizen. The overall growth of students, along with academia is our top priority. We provide excellent academic ambience in curricular, co-curricular and extracurricular initiatives, facilities and teaching learning experiences.
- Section: Message from HoD
- Text: The Department of Computer Applications is dedicated to ensuring great careers for students joining to pursue a Postgraduate degree. The excellent infrastructure, Training and Placement Cell and teaching faculty of the best kind ensure quality education with a key to assuring a bright future for the students. The department as a team constantly strive to thrive and excel in the world of Computer Applications. We offer a good number of certificate courses and training programmes periodically for providing a wide spectrum of options to the students to pursue their interests. Students are encouraged to undertake various research projects, internship and competitions. The state-of-the-art infrastructure consisting of well-equipped laboratories, high-speed internet connection, high-end computing facilities, smart classrooms and library access to a wide range of electronic databases, e-journals, and online books which in turn assist the productivity of the students are the other highlights of the department. We foster, promote and sustain education and provide a holistic environment to students. Our department sensitizes the students to serve for environmental, social and ethical needs of society through lifelong learning. We invite you to be part of this unique transformative experience with MITS.
- Footer: MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE, Varikol P.O, Puthencruz COLLEGE CODE : MUT Affiliated to APJ Abdul Kalam Technological University, Approved by AICTE, info@mgs.ac.in | 0484-2833300/0484-2732100/111, Relentless passion for excellence..., (Promoted by The Muthoot Group)

Program # 3

3. Create a webpage about your hometown and its tourist attractions using Html, and External, Internal, and inline CSS.

The following elements should be included in the webpage.

1. Html text formatting
2. Links to Wikipedia pages for further references
3. External, Internal, and Inline CSS
4. CSS should include font colour, positioning, background colours, text alignment etc.
5. Images of the hometown and its attractions.

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<head>
<style type="text/css">
p{
padding-left: 10px;
}
h1{
color: forestgreen;
font-size: 25px;
font-weight: bold;
font-family: serif;
}
</style>
<title>homtown</title>
<link rel="stylesheet" type="text/css" href="hometown.css">
</head>
<body>
<div class="main">
<div class="header">
<div class="left">
<h3 style="color: #fff;font-family: cursive;font-size: 30px;"><b>My hometown....</b></p>
</div>
</div>
<div class="container">
<h1 class="heading"><u>About my hometown...Alwaye!</u></h1>
<p class="para">
<u><i><b>Aluva</i></u> (also known by its former name Alwaye) is a municipality in the
Ernakulam district of Kerala, India.Aluva is situated 14.5 km (9.0 mi) from Kochi along the
banks of Periyar River, and is a part of the Kochi metropolitan area.Aluva is a major
transportation hub, connecting North Malabar and Central Kerala to Kochi. The Cochin
```

International Airport at Nedumbassery, located 11.7 km from Aluva, is an important aviation hub which hosts both domestic and international flights. Aluva is also the northern terminus of the Kochi metro.

Aluva, home to the summer residency of the Travancore royal family–the Alwaye Palace–is also famous for the Sivarathri festival celebrated annually at the sandbanks of Periyar. The Advaita Ashrams in Aluva founded in 1913 by Sree Narayana Guru, one of India's greatest social reformers, adds to the cultural significance of the region. Today, despite being a part of the city as well as the Kochi urban agglomeration, Aluva is still only an autonomous municipality with its civic administration conducted by Aluva Municipal Council, primarily because Kochi Corporation has not expanded its limits for over 53 years.

Aluva also serves as the administrative centre of the Aluva taluk. Villages from Mukundapuram, Kanayannur, Kunathunad and North Paravur taluks were combined to form the Aluva Taluk in 1956. The headquarters of the District Police Chief of Ernakulam Rural Police District, Superintending engineer, PWD (Roads) and of the District Educational Officer, Aluva are also located there. It is the northern starting point of Kochi Metro rail's first phase which began its operations in June 2017, as well as the Kochi city bus network. The Metro station is at Bypass, Aluva.
</p></div>

<div class="bottom">

<h2 style="color: crimson;">Must visit places!</h2>

</div>

click here to know more

</div>

</body>

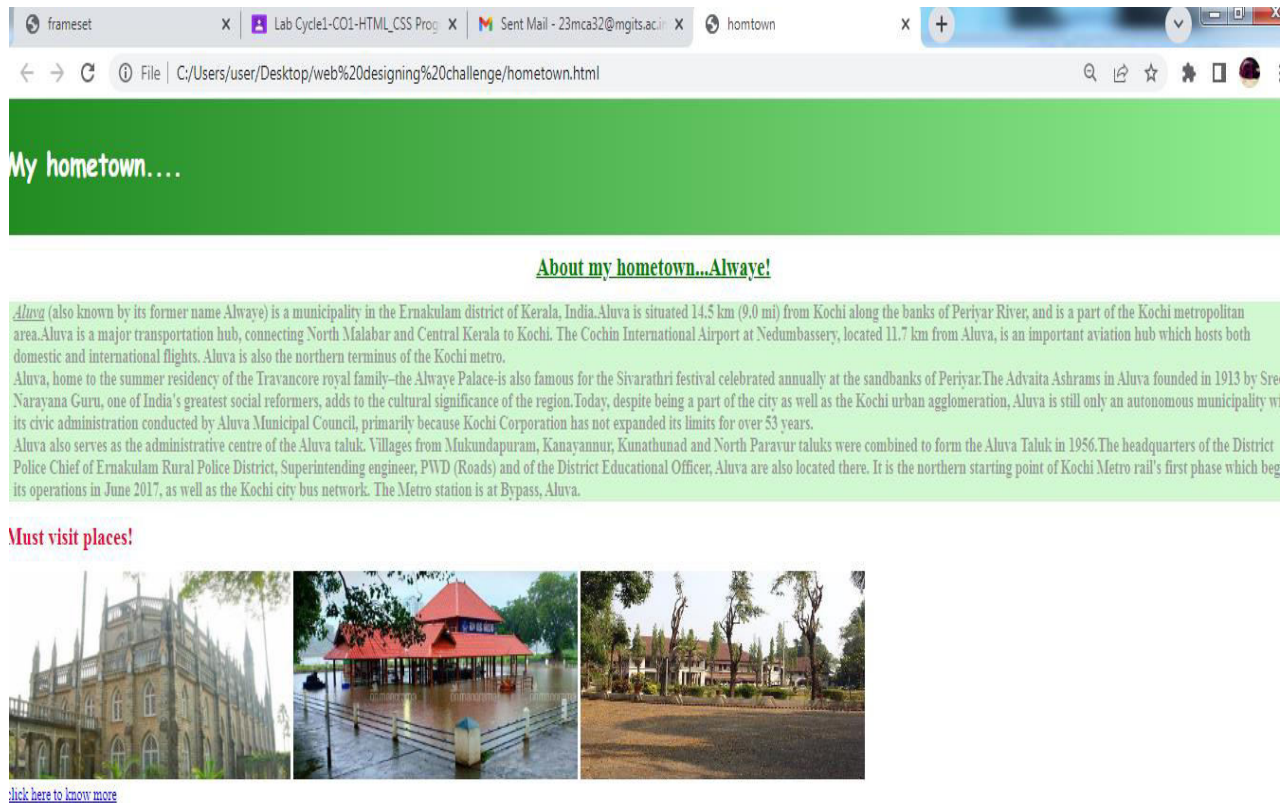
</html>

hometown.css

```
.header{
background:linear-gradient(90deg,#228B22,#90EE90);
width: 100%;
height: 130px;
}body{
margin: 0;
}.left{
width: 50%;
padding-top: 10PX;
float: left;
}.para{
text-align: left;
font-size: 18px;
background-color: #90EE90;
opacity: 0.4;
```

```
color: black;}.heading{text-align: center;color: #008000;}
```

OUTPUT:



Program # 4

4. Create MITS college Website with the help of frames, style sheets, background colours, images, tables, and lists. Create multiple webpages which are easily navigable by hyperlinks. Apply style sheets as well as floating, mixed, and navigation frames to design the webpages.

PROGRAM CODE:

HOME (mits_college.html)

```
<!DOCTYPE html>
<html>
<head>
<title>mits</title>
<style type="">
img{
height: 400px;
width:100%;
}
.footer{
width: 100%;
height: 100px;
background-color: #fff;
}
.foot{
font-family: Times New Roman;
font-size: 15px;
text-align: left;
font-weight: bold;
color: crimson;
}
</style>
<link rel="stylesheet" type="text/css" href="mits.css">
</head>
<body>
<div class="container">
<div class="head">
<center><h1 style="color : crimson; font-family: Times New Roman; font-size:
25px;">Muthoot<br>Institute Of Technology And
Science<br>Varikoli.P.O,Puthencruz</h1>
</center>
</div>
<div class="header">
<div class="left">
```

```
<ul>
<li><a href="mits_college.html">Home</a></li>
<li><a href="about_mits.html">About Us</a></li>
<li><a href="main.html">Admissions</a></li>
<li><a href="#">Departments</a></li>
<li><a href="placement_mits.html">Placements</a></li>
<li><a href="#">Contact Us</a></li>
</ul>
</div></div>
<div class="main">

</div>
<div class="footer">
<p class="foot">
COLLEGE CODE : MUT
Affiliated to APJ Abdul Kalam Technological University<br>
Approved by AICTE<br>
info@mgits.ac.in | 0484-2883300/0484-2732100/111<br>
Relentless passion for excellence...<br>
(Promoted by The Muthoot Group)
</p>
</div>
</div>
</body>
</html>
```

mits.css

```
.header{
    background-color: crimson;
    width: 100%;
    height: 100px;
}
.head{
    background-color: #fff;
    width: 100%;
    height: 100px;
}
body{
    margin: 0;
}
.left{
    width: 50%;
    padding-top: 10PX;
    float: left;
    background-color: crimson;
    width: 100%;
```

```
        height: 100px;
    }
    .left ul
    {
        display: inline-flex;
        list-style: none;
        color: white;
    }
    .left ul li
    {
        width: 120px;
        margin: 15px;
        padding: 15px;
    }
    .left ul li a
    {
        text-decoration: none;
        color: white;
    }
    .right{
        width: 50%;
        float: left;
        font-family: inherit;
        color: #FFF;
        font-size: 25px;
        font-weight: bold;

    }
    .main{
        font-family: Times new roman;
    }
    .para{
        text-align: left;
        font-size: 18px;
    }
    .heading{
        text-align: center;
        color: crimson;
    }
}
```

ABOUT US (about mits.html)

```
<!DOCTYPE html>
<html>
<head>
<style type="text/css">
```

```

        p{
            padding-left: 10px;
        }
</style>
<title>About</title>
<link rel="stylesheet" type="text/css" href="mystyle.css">
</head>
<body>
<div class="main">
<div class="container">
<h1 class="heading">About Mits</h1>
<p class="para">
Muthoot Institute of Technology and Science (MITS) is promoted by Muthoot M. George
Institute of Technology, a Section 25 Company within the Muthoot Group. MITS is a self
financing technical institution offering postgraduate and undergraduate engineering
programmes, situated in the industrial suburb of Kochi, close to the Smart City and Info Park,
approximately 15 kms from Vytilla Junction towards Muvattupuzha on the Cochin Madurai
National Highway. <br>
The promoters with their commanding presence in the domains of Financial Services,
Hospitality, Healthcare, Renewable Energy and Information Technology, are committed to
building MITS as a centre of excellence, focusing purely on merit. This “temple of learning”
will provide to the students, state-of-the-art infrastructure, highly qualified and proficient
teachers from various faculty of engineering and allied streams, embedded in a conducive
environment where focus will be on their harmonious development.<br></p></div>
<div class="bottom">
<h2 style="background-color: crimson;color: white;"><center>VISION</center></h2>
<p style="font-weight: bold;">To be a centre of excellence for learning and research in
engineering and technology,<br> producing intellectually well-equipped and socially
committed citizens possessing an ethical value system.</p><br>
<h2 style="background-color: crimson;color: white;"><center>MISSION</center></h2>
<P style="font-weight: bold;">Offer well-balanced programme of instruction, practical
exercise and opportunities in technology.<br>
* Foster innovation and ideation of technological solutions on sustainable basis.<br>
* Nurture a value system in students and engender in them a spirit of inquiry.</P>
</div>
<div class="data">
<table border="1">
<tr>
<th>Programs Offered</th>
<th>No.of intakes</th>
</tr><tr>
<td>B.Tech CSE</td>
<td>120</td></tr>
<tr>
<td>B.Tech EC</td>

```

```
<td>120</td>
</tr>
<tr>
<td>B.Tech EEE</td>
<td>120</td>
</tr>
<tr>
<td>B.Tech AI&DS</td>
<td>120</td>
</tr>
<tr>
<td>MCA</td>
<td>60</td></tr></table></div></div></body></html>
```

mystyle.css

```
.heading{
    text-align: center;
    color: #fff;
    background-color: crimson;
}
body{
    margin: 0;
    padding: 0;
}
.left{
    width: 50%;
    padding-top: 10PX;
    float: left;
}
.right{
    width: 50%;
    padding-top: 10PX;
    float: : left;
    font-size: 18px;
}
img{
    position: absolute;
}
```

ADMISSIONS(main.html)

```
<!DOCTYPE html>
<html>
<head>
    <title>frameset</title>
</head>
```

[illegible]

```

</select><br><br>
Pass year:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="number" name="year">
Institution:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text"
name="college"><br><br>
University:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<select>
<option value="mg">Mahatma Gandhi University,Kottayam</option>
<option value="kerala">Kerala University</option>
<option value="kannur">Kannur University</option>
<option value="calicut">Calicut University</option>
</select><br><br>
Aggregate CGPA:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="number"
name="cgpa"><br><br>
Subsidiary Papers:
<input type="checkbox" name="subsidiary" value="on">Physics
<input type="checkbox" name="subsidiary" value="on">Maths
<input type="checkbox" name="subsidiary" value="on">Chemistry<br><br>
password:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="password" id="pwd"
name="pwd">
Re-type password:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="password"
id="pwd" name="pwd"><br><br>
<center><input type="submit" name="submit" value="submit"></center>
</form>
</body>
</html>

```

mits.html

```

<!DOCTYPE html>
<html>
<head>
<title>mits</title>
<style type="">
    p{
        text-align: left;
    }
    .footer{
        width: 100%;
        height: 100px;
        background-color: crimson;
    }
    .foot{
        font-family: Times New Roman;
        font-size: 15px;
        text-align: left;
        font-weight: bold;
        color: #fff;
    }

```

```

u{
    color: crimson;
}
</style>
<link rel="stylesheet" type="text/css" href="mgits.css">
</head>
<body>
    <div class="container">
<div class="header">
<div class="left">
<ul>
<li><a href="#login.html">Home</a></li>
<li><a href="/signup.html">People</a></li>
<li><a href="/home.html">Highlights</a></li>
</ul></div>
<div class="right">
<p>DEPARTMENT OF COMPUTER APPLICATIONS</p></div></div>
<div class="main">
<h1 class="heading">Department Profile</h1>
<p class="para">
Muthoot Institute of Technology and Science (MITS) Puthencruz was established in May
2013.<br> The Department of Computer Applications (CA) is the youngest in the MITS
family.<br> The department offers the postgraduate programme, Master of Computer
Applications with an annual intake of 60 students.<br> The department boasts a rich
knowledge pool of faculty who are well-trained and efficient.<br> Holistic Education is a
unique course through which students are given training on personal, interpersonal and
societal skills to<br> instill desirable qualities as both an employee and global citizen.<br>
The overall growth of students, along with academia is our top priority.<br> We provide
excellent academic ambience in curricular, co-curricular and extracurricular initiatives,
facilities and teaching-learning experiences.<br></p><u><h2 style="color: crimson;font-
family: serif;">Message from HoD</h2></u>
<P class="para">The Department of Computer Applications is dedicated to ensuring great
careers for students joining to pursue a Postgraduate degree. The excellent infrastructure,
Training and Placement Cell and teaching faculty of the best kind ensure quality education
with a key to assuring a bright future for the students. The department as a team constantly
strives to thrive and excel in the world of Computer Applications.<br>
We offer a good number of certificate courses and training programmes periodically for
providing a wide spectrum of options to the students to pursue their interests. Students are
encouraged to undertake various research projects, internships and competitions.<br>
The state-of-the-art infrastructure consisting of well-equipped laboratories, high- speed
internet connection, high-end computing facilities, smart classrooms and library access to a
wide range of electronic databases, e-journals, and online books which in turn assist the
productivity of the students are the other highlights of the department. We foster, promote
and sustain education and provide a holistic environment to students. Our department

```


sensitizes the students to serve for environmental, social and ethical needs of society through lifelong learning.

We invite you to be part of this unique transformative experience with MITS.</P>

</div>

<div class="footer">

<p class="foot">

MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE

Varikoli.P.O,Puthencruz

COLLEGE CODE : MUT

Affiliated to APJ Abdul Kalam Technological University

Approved by AICTE

info@mgits.ac.in | 0484-2883300/0484-2732100/111

Relentless passion for excellence...

(Promoted by The Muthoot Group)

</p></div></div>

</body>

</html>

mgits.css

.header{

background-color: crimson;

width: 100%;

height: 100px;

}

body{

margin: 0;

}

.left{

width: 50%;

padding-top: 10PX;

float: left;

}

ul{

list-style-type:none;

float:left;

margin-top:25px;

}

ul li{

display:inline-block;

}

ul li a{

text-decoration:none;

color:white;

padding:5px 15px;

font-size: 20px;

}

```
.text{
font-family: inherit;
font-weight: bold;
font-size: 35px;
margin-left: 100px;
color: #fff;
}
.right{
width: 50%;
float: left;
font-family: inherit;
color: #FFF;
font-size: 25px;
font-weight: bold;

}
.main{
font-family: Times new roman;
}
.para{
text-align: left;
font-size: 18px;
}
.heading{
text-align: center;
color: crimson;
}
```

PLACEMENTS (placement_mits.html)

```
<!DOCTYPE html>
<html>
<head>
    <title>floating frame_cntct</title>
</head>
<body><center>
    <h1 style="color: red">Career Guidance!!</h1><br>
    <iframe width="560" height="315" src="video.html" frameborder="0"></iframe>
</center>
</body>
```

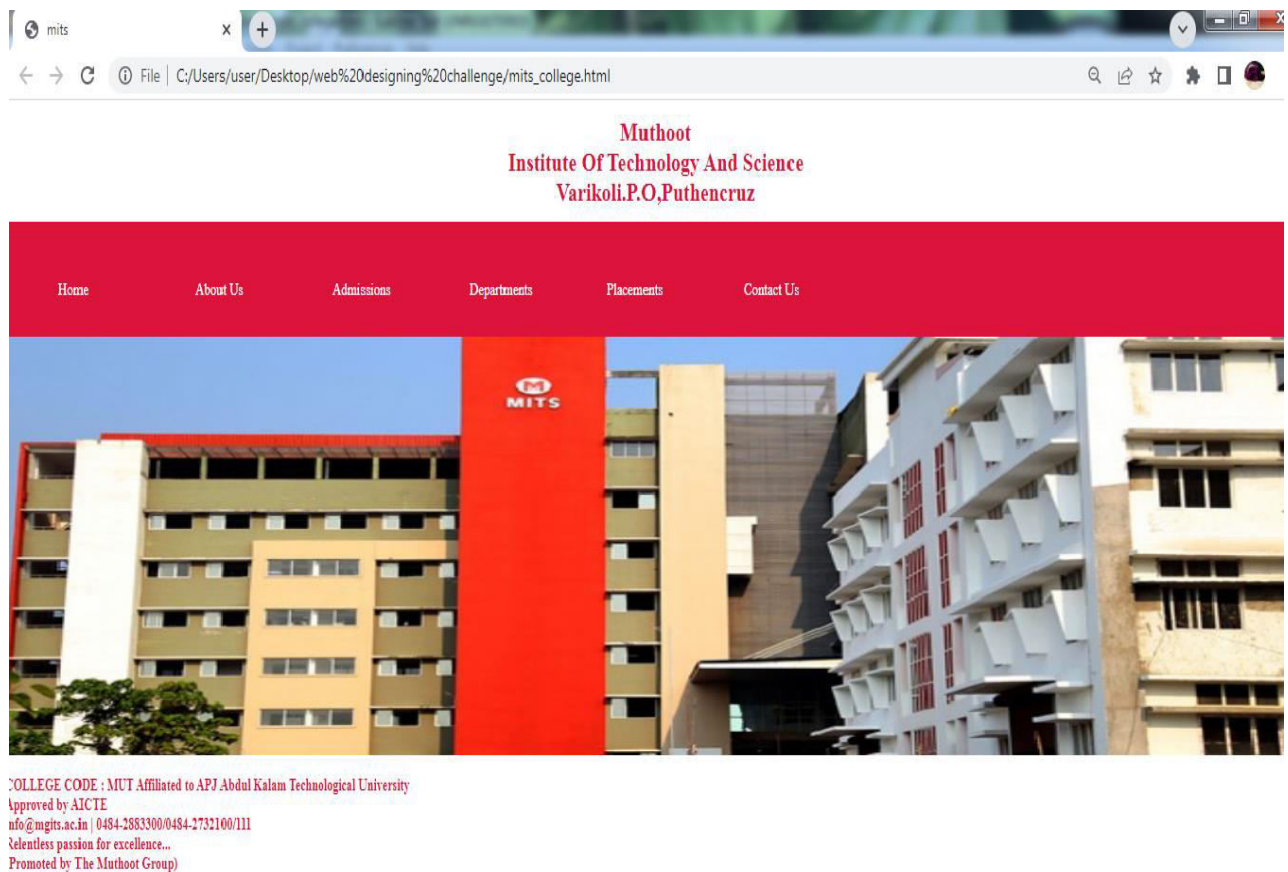
video.html

```
<!DOCTYPE html>
<html>
<head>
    <title>floating frame</title>
</head>
```

```
<body>
<h1>Connect with us...</h1><hr>
<center><VIDEO width="400px" height="200px" controls loop autoplay muted>
<source src="video_test.mp4" type="video/mp4"><br>
</VIDEO>
</center>
</body>
</html>
```

OUTPUT:

HOME



ABOUT US

20MCA133 Web Programming Lab Record

← → ↻

File | C:/Users/user/Desktop/web%20designing%20challenge/about_mits.html

🔍 📄 ⭐ ⚙️ 👤

Muthoot Institute Of Technology And Science

About

Muthoot Institute of Technology and Science (MITS) is promoted by Muthoot M. George Institute of Technology, a Section 25 Company within the Muthoot Group. MITS is a self financing technical institution offering postgraduate and undergraduate engineering programmes, situated in the industrial suburb of Kochi, close to the Smart City and Info Park, approximately 15 kms from Vytilla Junction towards Muvattupuzha on the Cochin Madurai National Highway.

The promoters with their commanding presence in the domains of Financial Services, Hospitality, Healthcare, Renewable Energy and Information Technology, are committed to building MITS as a centre of excellence, focusing purely on merit. This "temple of learning" will provide to the students, state-of-the-art infrastructure, highly qualified and proficient teachers from various faculty of engineering and all streams, embedded in a conducive environment where focus will be on their harmonious development.

VISION

To be a centre of excellence for learning and research in engineering and technology, producing intellectually well-equipped and socially committed citizens possessing an ethical value system.

MISSION

Offer well-balanced programme of instruction, practical exercise and opportunities in technology.
* Foster innovation and ideation of technological solutions on sustainable basis.
* Nurture a value system in students and engender in them a spirit of inquiry.

| Programs Offered | No.of intakes |
|------------------|---------------|
| B.Tech CSE | 120 |
| B.Tech EC | 120 |
| B.Tech EEE | 120 |
| B.Tech AI&DS | 120 |
| MCA | 60 |

ADMISSIONS

frameset x +

← → ↻

File | C:/Users/user/Desktop/web%20designing%20challenge/main.html

🔍 📄 ⭐ ⚙️ 👤

Registration Form

Name:

Age:

Date of Birth:

Email:

Gender: ☐ Male ☒ Female

Permanent Address:

Puthenparamb (H),
South Aduvassery P.O
Kunnukara

Communication Address:

Puthenparamb (H),
South Aduvassery P.O
Kunnukara

Pin:

District: State:

Phone:

Educational Qualification:

Pass year: Institution:

University:

Aggregate CGPA:

Subsidiary Papers: ☒ Physics ☒ Maths ☐ Chemistry

password: Re-type password:

Home People Highlights

DEPARTMENT OF COMPUTER APPLICATIONS

Department Profile

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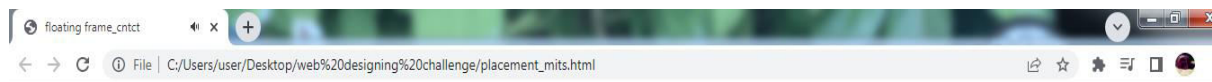
We offer a good number of certificate courses and training programmes periodically for providing a wide spectrum of options to the students to pursue their interests. Students are encouraged to undertake various research projects, internship and competitions.

The state-of-the-art infrastructure consisting of well-equipped laboratories, high-speed internet connection, high-end computing facilities, smart classrooms and library access to a wide range of electronic databases, e-journals, and online books which in turn assist the productivity of the students are the other highlights of the department. We foster, promote and sustain education and provide a holistic environment to students. Our department sensitizes the students to serve for environmental, social and ethical needs of society through lifelong learning.

We invite you to be part of this unique transformative experience with MITS.

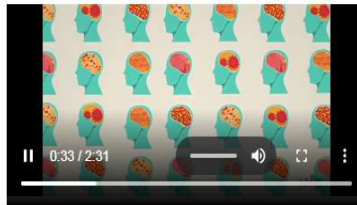
MUTHOOT INSTITUTE OF TECHNOLOGY AND SCIENCE
Varikoh,P.O,Puthencruz COLLEGE CODE : MUT Affiliated to APJ Abdul Kalam Technological University
Approved by AICTE
info@mits.ac.in | 0484-2883300/0484-2732100/111
Relentless passion for excellence...
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PLACEMENTS



Career Guidance!!

Connect with us...



Program # 5

5. Apply positioning methods of elements on a webpage with div elements and their corresponding classes using two external stylesheets. Compare the output with absolute, and relative positioning of div elements.

PROGRAM CODE:

Absolute Positioning (absolute.html)

```
<!DOCTYPE html>
<html>
<head>
    <title>absolute</title>
    <link rel="stylesheet" type="text/css" href="absolute.css">
</head>
<body>
<div class="main">
<center><u    style="color:    darkblue;"><h1    style="color:    darkblue;">Absolute
Positioning</h1></u></center>
    <div class="col-1">
        <h2>1</h2>
    </div>
    <div class="col-2">
        <h2>2</h2>
    </div>
    <div class="col-3">
        <h2>3</h2>
    </div>
</div>
</body>
</html>
```

a) absolute.css

```
.col-1{
    width: 400px;
    height: 400px;
    float: left;
    text-align: center;
    background-color: powderblue;
}
.col-2{
    width: 400px;
    height: 400px;
```

```
float: left;
text-align: center;
position: absolute;
top: 200px;
left: 150px;
background-color: LemonChiffon;
}
.col-3{
width: 400px;
height: 400px;
float: left;
text-align: center;
background-color: lawngreen;
}
```

OUTPUT:



b) Relative Positioning (relative.html)

```
<!DOCTYPE html>
<html>
<head>
  <title>relative</title>
  <link rel="stylesheet" type="text/css" href="relative.css">
```

```

</head>
<body>
<div class="main">
<center><u style="color: darkblue;"><h1 style="color: darkblue;">Relative
Positioning</h1></u></center>
    <div class="col-1">
        <h2>1</h2>
    </div>
    <div class="col-2">
        <h2>2</h2>
    </div>
    <div class="col-3">
        <h2>3</h2>
    </div>
</div>
</body>
</html>

```

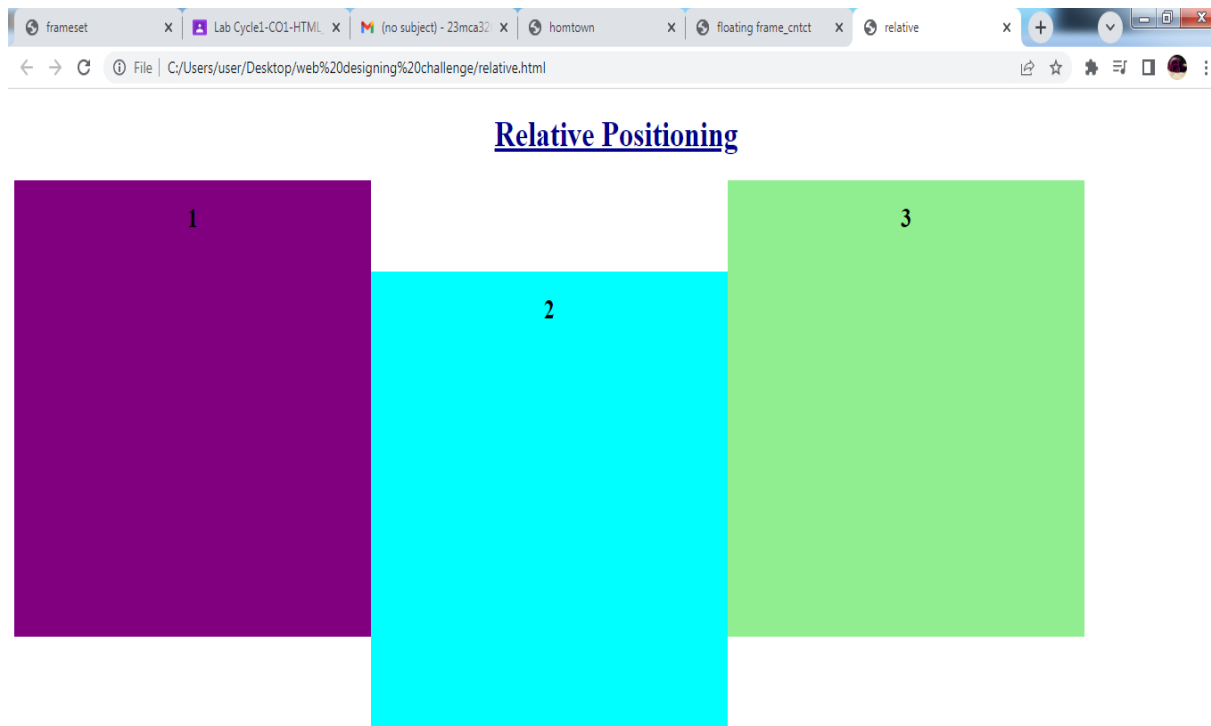
relative.css

```

.col-1{
    width: 400px;
    height: 400px;
    float: left;
    text-align: center;
    background-color: purple;
}
.col-2{
    width: 400px;
    height: 400px;
    float: left;
    text-align: center;
    position: relative;
    top: 80px;
    left: 0px;
    background-color: cyan;
}
.col-3{
    width: 400px;
    height: 400px;
    float: left;
    text-align: center;
    background-color: lightgreen;
}

```


OUTPUT:



Lab Cycle2

CO2: Learn and design client-side validation using scripting languages.

Program # 6

6. Create a HTML page to explain the use of various predefined functions in a string and math object in java script.

PROGRAM CODE:

Frame.html

```
<!DOCTYPE html>
<html>
<frameset cols="50%,50%">
<frame src="string.html">
<frame src="math.html">
</frameset>
</html>
```

String.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String functions</title>
</head>
<body>
  <div>
    <h2 style="color: darkblue;"><center>STRING FUNCTIONS</center></h2>
    <table>
      <tbody>
        <tr>
          <th>Enter a text</th>
          <td> <input type="text" id="input_string" name="input_s"> </td>
        </tr>
        <tr>
          <th>Search a text</th>
          <td> <input type="text" id="input_search" name="input_search"> </td>
        </tr>
        <tr>
          <th>Slice start</th>
          <td> <input type="text" id="slice_s" name="slice_s"> </td>
        </tr>
      </tbody>
    </table>
  </div>
</body>
</html>
```

```

    </tr>
    <tr>
        <th>Slice end</th>
        <td><input type="text" id="slice_e" name="slice_e"></td>
    </tr>
    <tr>
        <th>Replace the word</th>
        <td><input type="text" id="replace_f"></td>
    </tr>
    <tr>
        <th>Replace with</th>
        <td><input type="text" id="replace_s"></td>
    </tr>
</tbody>
</table>

<input type="button" value="Generate" class="selector" onclick="string_func()">
<br><br>
<ul id="output"> </ul>
</div>

<script>
function string_func() {
    let input = document.getElementById('input_string').value;
    let search = document.getElementById('input_search').value;
    let slice_s = document.getElementById('slice_s').value;
    let slice_e = document.getElementById('slice_e').value;
    let replace_f = document.getElementById('replace_f').value;
    let replace_s = document.getElementById('replace_s').value;
    let li_O = '<li>';
    let li_C = '</li>';
    let list_items;
    list_items = li_O + 'Length of string is : ' + input.length + li_C;
    list_items += li_O + 'First index of ' + search + ' is: ' + input.indexOf(search) + li_C;
    list_items += li_O + 'Last index of ' + search + ' is: ' + input.lastIndexOf(search) +
li_C;
    list_items += li_O + 'Index with search starting position 5 of ' + search + ' is: ' +
input.indexOf(search, 5) + li_C;
    list_items += li_O + 'Search ' + search + ' is: ' + input.search(search) + li_C;
    list_items += li_O + 'Slice[' + slice_s + ' : ] is: ' + input.slice(slice_s) + li_C;
    list_items += li_O + 'Slice[' + slice_s + ' : ' + slice_e + '] is: ' + input.slice(slice_s,
slice_e) + li_C;
    list_items += li_O + 'Substring[' + slice_s + ' : ' + slice_e + '] is: ' +
input.substring(slice_s, slice_e) + li_C;
    list_items += li_O + 'Substr[' + slice_s + ' : ] is: ' + input.substr(slice_s) + li_C;
    list_items += li_O + 'Substr[' + slice_s + ' : ] with length ' + slice_e + ' is: ' +
input.substr(slice_s, slice_e) + li_C;
    list_items += li_O + 'replace ' + replace_f + ' with ' + replace_s + ' is: ' +
input.replace(replace_f, replace_s) + li_C;

```

```

list_items += li_O + 'Uppercase : ' + input.toUpperCase() + li_C;
    list_items += li_O + 'lowercase : ' + input.toLowerCase() + li_C;
    document.getElementById('output').innerHTML = list_items;
}
</script>
</body>
</html>

```

Math.html

```

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Math functions</title>

</head>

<body>

<div>

<h2 style="color: darkblue;"><center>Math Functions</center></h2>

<table>

<tbody>

<tr>

<th>Enter a Number</th>

<td> <input type="text" id="input_num"></td>

</tr>

<tr>

<th>Power term</th>

<td> <input type="text" id="input_pow"></td>

</tr>

</tbody>

</table>

<input type="button" value="Generate" class="selector" onclick="math_func()">

<br><br>

<ul id="output_math"> </ul>

```

```

</div>

<script>

function math_func()
{
let input = document.getElementById('input_num').value;
let power = document.getElementById('input_pow').value;
let li_O = '<li>';
let li_C = '</li>';
let list_items;

list_items = li_O + 'Value of PI : ' + Math.PI + li_C;
list_items += li_O + 'Round of '+input+' is : ' + Math.round(input) + li_C;
list_items += li_O + '+input+' raise to '+power+' is : ' + Math.pow(input,power) +
li_C;
list_items += li_O + 'Square root of '+input+' is : ' + Math.sqrt(input) + li_C;
list_items += li_O + 'Absolute value of '+input+' is : ' + Math.abs(input) + li_C;
list_items += li_O + 'Ceil value of '+input+' is : ' + Math.ceil(input) + li_C;
list_items += li_O + 'Floor value of '+input+' is : ' + Math.floor(input) + li_C;
list_items += li_O + 'Sin value of '+input+' is : ' + Math.sin(input* Math.PI / 180) +
li_C;
list_items += li_O + 'Cos value of '+input+' is : ' + Math.cos(input* Math.PI / 180) +
li_C;
list_items += li_O + 'Minimum of (0, 150, 30, 20, -8, -200) is : ' + Math.min(0, 150,
30, 20, -8, -200) + li_C;
list_items += li_O + 'Maximum of (0, 150, 30, 20, -8, -200) is : ' + Math.max(0,
150, 30, 20, -8, -200) + li_C;
list_items += li_O + 'A Random number is : ' + Math.random() + li_C;
document.getElementById('output_math').innerHTML = (list_items);
}

</script>

</body>

```

</html>

OUTPUT:

The screenshot shows a web browser with two side-by-side web applications. The left application, titled 'STRING FUNCTIONS', has input fields for 'Enter a text' (suhanabajan), 'Search a text' (h), 'Slice start' (2), 'Slice end' (4), 'Replace the word' (bajan), and 'Replace with' (ajesh). A 'Generate' button is at the bottom. The right application, titled 'Math Functions', has input fields for 'Enter a Number' (-6.25) and 'Power term' (2), with a 'Generate' button. Both applications display a list of results.

STRING FUNCTIONS

Enter a text: suhanabajan
 Search a text: h
 Slice start: 2
 Slice end: 4
 Replace the word: bajan
 Replace with: ajesh
 Generate

- Length of string is : 12
- First index of h is: 2
- Last index of h is: 2
- Index with search starting position 5 of h is: -1
- Search h is: 2
- Slice[2 :] is: hanabajan
- Slice[2 : 4] is: ha
- Substring[2 : 4] is: ha
- Substr[2 :] is: hanabajan
- Substr[2 :] with length 4 is: hana
- replace bajan with ajesh is: suhanaajesh
- Uppercase : SUHANABAIJAN
- lowercase : suhanabajan

Math Functions

Enter a Number: -6.25
 Power term: 2
 Generate

- Value of PI : 3.141592653589793
- Round of -6.25 is : -6
- -6.25 raise to 2 is : 39.0625
- Square root of -6.25 is : NaN
- Absolute value of -6.25 is : 6.25
- Ceil value of -6.25 is : -6
- Floor value of -6.25 is : -7
- Sin value of -6.25 is : -0.10886687485196457
- Cos value of -6.25 is : 0.994056338223196
- Minimum of (0, 150, 30, 20, -8, -200) is : -200
- Maximum of (0, 150, 30, 20, -8, -200) is : 150
- A Random number is : 0.37992847555817066

Program # 7

7. Generate the calendar using JavaScript code by getting the year from the user.

PROGRAM CODE:

```
<!DOCTYPE HTML>

<html>

<head><center>

<h1 style="color:red;">CALENDAR</h1>

<style>

    table {

        border-collapse: collapse;

    }

    td,

    th {

        border: 1px;

        padding: 3px;

        text-align: center;

    }

    th {

        font-weight: bold;

        background-color: lightgrey;

    }

    #month-year {

        margin-bottom: 10px;

    }

</style>

</head>

<body>

<label for="year">Year:</label>
```



```

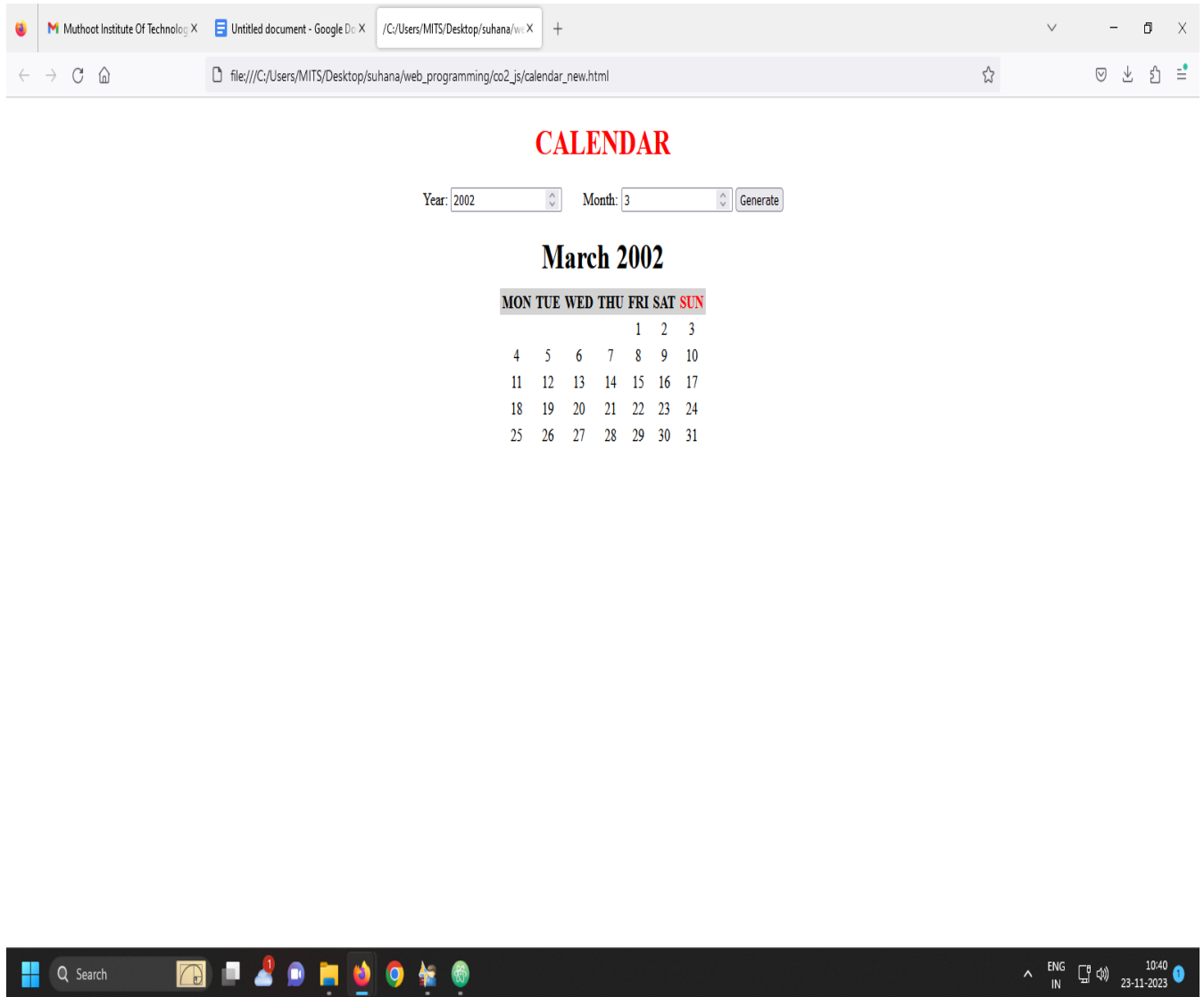
    }
    d.setDate(d.getDate() + 1);
    }
    if (getDay(d) != 0) {
        for (let i = getDay(d); i < 7; i++) {
            table += '<td></td>';
        }
    }
    table += '</tr></table>';
    elem.innerHTML = table;
}

function displayMonthYear(year, month) {
    let monthYearText = document.getElementById("month-year");
    let monthName = new Date(year, month - 1).toLocaleString('en-us', { month: 'long' });
    monthYearText.textContent = `${monthName} ${year}`;
}

function getDay(date) {
    let day = date.getDay();
    if (day == 0) day = 7;
    return day - 1;
}
</script>
</body>
</center>
</html>

```

OUTPUT:



Program # 8

8. Create a HTML registration form and to validate the form using JavaScript code.

PROGRAM CODE:

```
<!DOCTYPE html>

<html>

<head>

<title>Registration form</title>

<script>

function Registration() {

    var fname, age, phno, email;

    fname = document.frm.textfname.value;

    age = document.frm.textage.value;

    phno = document.frm.textphn.value;

    email = document.frm.email.value;

    let emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

    let validEmail = emailRegex.test(email);

    if (fname.trim() === "") {

        alert("Please enter your name");

        return false;

    }

    if (!/^[a-zA-Z\s]+$/.test(fname)) {

        alert("Enter a valid name");

        document.frm.textfname.focus();

        return false;

    }

    if (age.trim() === "") {

        alert("Please Enter your age");

        return false;

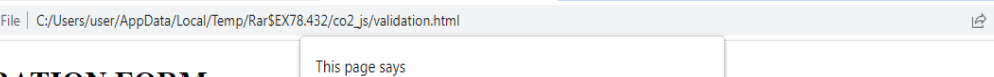
    }

}
```

```
    }  
    if (isNaN(age)) {  
        alert("Please enter a number as age");  
        return false;  
    }  
  
    if (!validEmail) {  
        alert("Please enter a valid Email.");  
        return false;  
    }  
  
    if (phno.trim() === "") {  
        alert("Please Enter phone Number");  
        return false;  
    }  
  
    if (isNaN(phno)) {  
        alert("Please enter a valid phone number");  
        return false;  
    }  
  
    if (phno.length !== 10) {  
        alert("Phone must contain 10 digits");  
        return false;  
    }  
  
    alert("You have successfully Registered");  
    return true;  
}  
</script>  
</head>
```

```
<body>  
    <h1>REGISTRATION FORM </h1>  
  
    <hr>  
  
    <br><br>  
  
    <form name="frm">  
        Name :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <input type="text" name="textfname" size="20"><br><br>  
        Age :&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <input type="text" name="textage" size="10"><br><br>  
        Email:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <input type="email" name="email" size="50"><br><br>  
        Phone Number :&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <input type="text" name="textphn" size="20"><br><br>  
        <input type="button" value="submit" onclick="return  
Registration()">&nbsp;&nbsp;&~  
        <input type="reset" value="clear">  
    </form>  
</body>  
</html>
```

OUTPUT: name validation



The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path "C:/Users/user/AppData/Local/Temp/Rar\$EX78.432/co2_js/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields:

- Name :
- Age :
- Email:
- Phone Number :

At the bottom of the form are two buttons: "submit" and "clear". A JavaScript alert dialog box is displayed in the center of the browser window, containing the text "This page says" and "Please enter your name", with an "OK" button.

20MCA133 Web Programming Lab Record

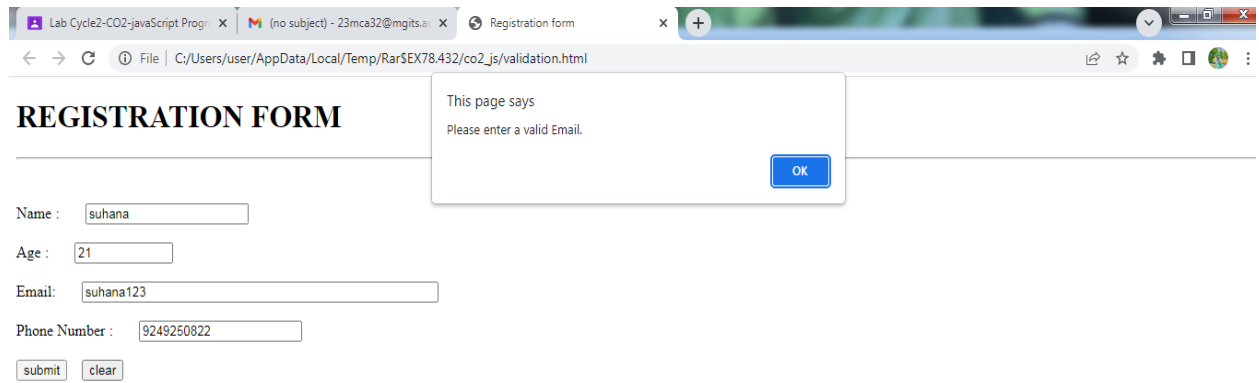
The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path: "C:/Users/user/Desktop/web%20designing%20challenge/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields: "Name" (containing "123"), "Age" (containing "21"), "Email" (containing "suhanaabaijan2002@gmail.com"), and "Phone Number" (containing "9847930188"). Below the fields are "submit" and "clear" buttons. A JavaScript alert box is displayed over the form, stating "This page says Enter a valid name" with an "OK" button.

Age validation:

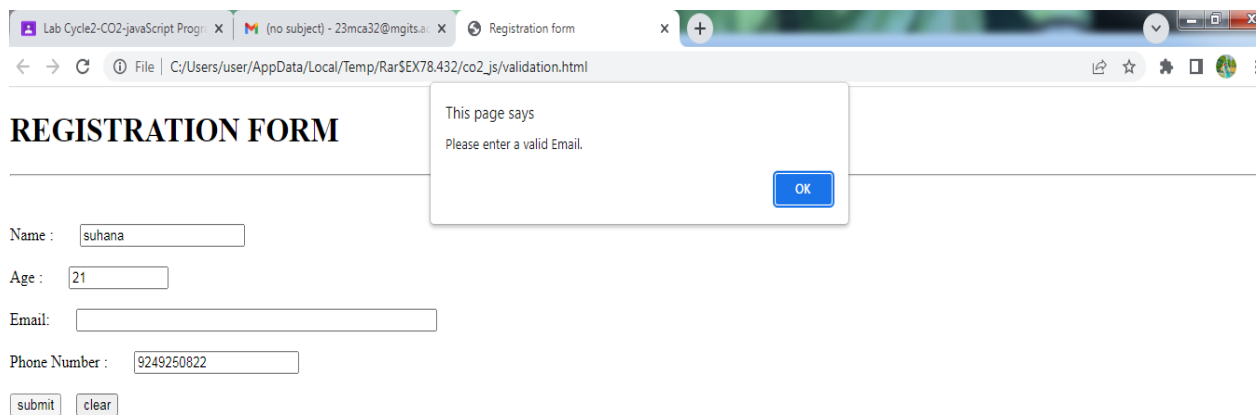
The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path: "C:/Users/user/AppData/Local/Temp/Rar\$EX78.432/co2_js/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields: "Name" (containing "suhana"), "Age" (empty), "Email" (containing "suhana@yahoo.co.in"), and "Phone Number" (containing "9249250822"). Below the fields are "submit" and "clear" buttons. A JavaScript alert box is displayed over the form, stating "This page says Please Enter your age" with an "OK" button.

The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path: "C:/Users/user/AppData/Local/Temp/Rar\$EX78.432/co2_js/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields: "Name" (containing "suhana"), "Age" (containing "a"), "Email" (containing "suhana@yahoo.co.in"), and "Phone Number" (containing "9249250822"). Below the fields are "submit" and "clear" buttons. A JavaScript alert box is displayed over the form, stating "This page says Please enter number as age" with an "OK" button.

E-mail validation:

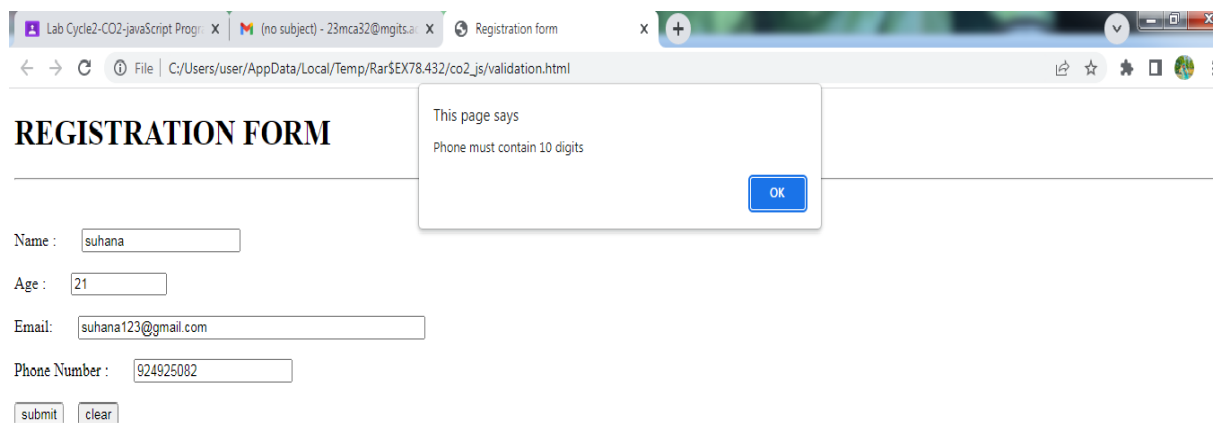


The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path: "C:/Users/user/AppData/Local/Temp/Rar\$EX78.432/co2_js/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields: "Name" (filled with "suhana"), "Age" (filled with "21"), "Email" (filled with "suhana123"), and "Phone Number" (filled with "9249250822"). Below the fields are "submit" and "clear" buttons. A modal dialog box is open, displaying the message "This page says Please enter a valid Email." with an "OK" button.



This screenshot is identical to the one above, showing the same registration form and email validation error message.

Phoneno validation:



The screenshot shows the same registration form as before, but with the "Email" field filled with "suhana123@gmail.com". The "Phone Number" field still contains "924925082". A modal dialog box is open, displaying the message "This page says Phone must contain 10 digits" with an "OK" button.

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The screenshot shows a web browser window with the title "Registration form". The address bar displays the file path: "C:/Users/user/AppData/Local/Temp/Rar\$EX78.432/co2_js/validation.html". The page content includes a heading "REGISTRATION FORM" and a form with the following fields: "Name" (containing "suhana"), "Age" (containing "21"), "Email" (containing "suhana123@gmail.com"), and "Phone Number" (containing "aaaa"). Below the fields are "submit" and "clear" buttons. A modal dialog box is open, displaying the message "This page says Please enter a valid phone number" with an "OK" button.

REGISTRATION FORM

Name :

Age :

Email:

Phone Number :

This page says
Please enter a valid phone number

OK

The screenshot shows the same web browser window as above, but the modal dialog box now displays the message "This page says You have successfully Registered" with an "OK" button. The form fields remain the same, but the "Email" field now contains "suhana123@gmail.com" and the "Phone Number" field contains "9249250822".

REGISTRATION FORM

Name :

Age :

Email:

Phone Number :

This page says
You have successfully Registered

OK

Program # 9

9. Create a program using the JavaScript Event Listener to add multiple events on the same button.

PROGRAM CODE:

```
<!DOCTYPE html>

<html>

<body>

<center><h2>JavaScript addEventListener()</h2></center>

<p>Here,theaddEventListener() method add many events on the same button.</p>

<button id="myBtn">Try it</button>

<p id="demo"></p>

<script>

var x = document.getElementById("myBtn");

x.addEventListener("mouseover",mouseOver );

x.addEventListener("click",mouseClick );

x.addEventListener("mouseout",mouseOut );

function mouseOver() {

document.getElementById("demo").innerHTML += "Moused over!<br>";

}

function mouseClick() {

document.getElementById("demo").innerHTML += "Clicked!<br>";

}

function mouseOut() {

document.getElementById("demo").innerHTML += "Moused out!<br>";

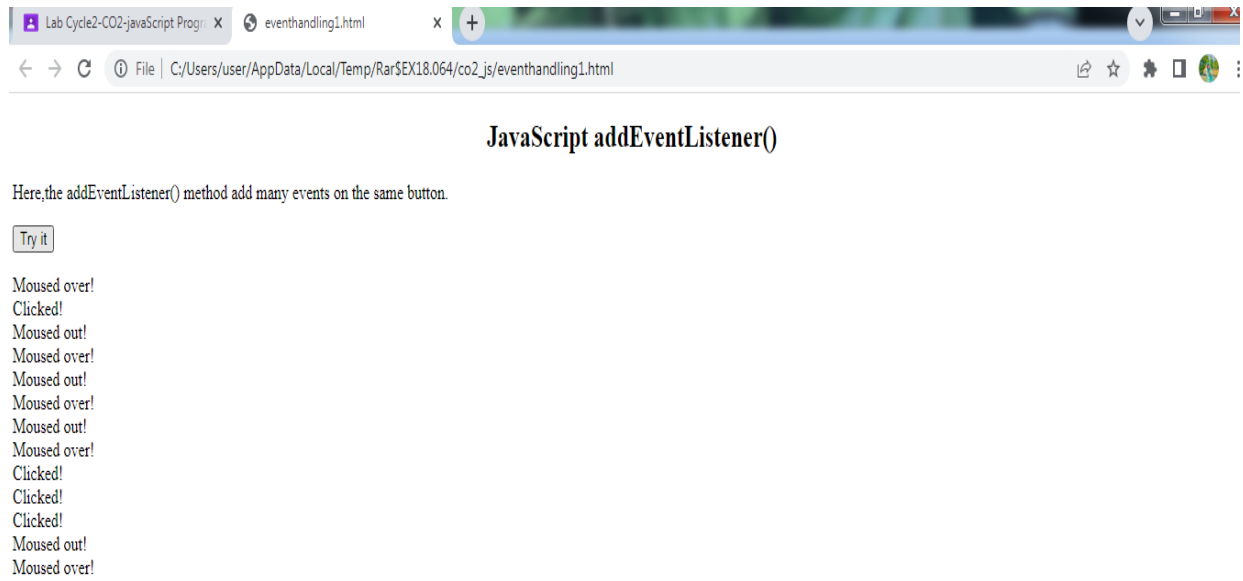
}

</script>

</body>

</html>
```

OUTPUT:



Program # 10

10. Develop a JavaScript Event Handling mechanism to change the background colour of a HTML page.

PROGRAM CODE:

```
<!DOCTYPE html>

<html>

<head>

<title>Change Background Colour on Mouse Click</title>

<style>

body { font-family: italic; }

#container { width: 1000px;

height: 600px;

margin: 50px auto;

padding: 20px;

text-align: center;

border: 1px solid #ccc;}

</style>

</head>

<body>

<div id="container">

<h1>Change Background Color</h1>

<p>Click HERE to change the colour!!!!</p></div>

<button id="myBtn">Try it</button>

<script>

const container = document.getElementById('container');

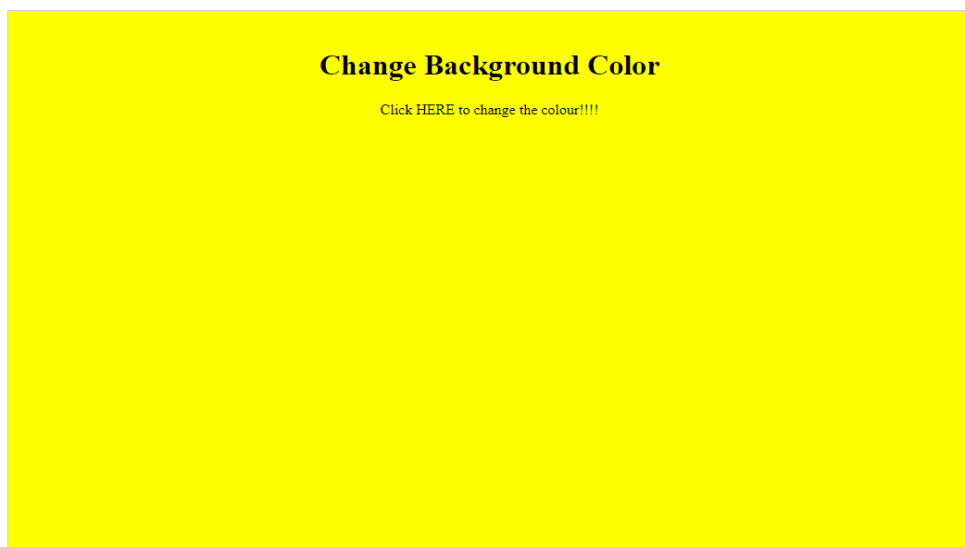
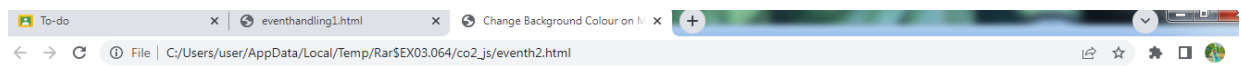
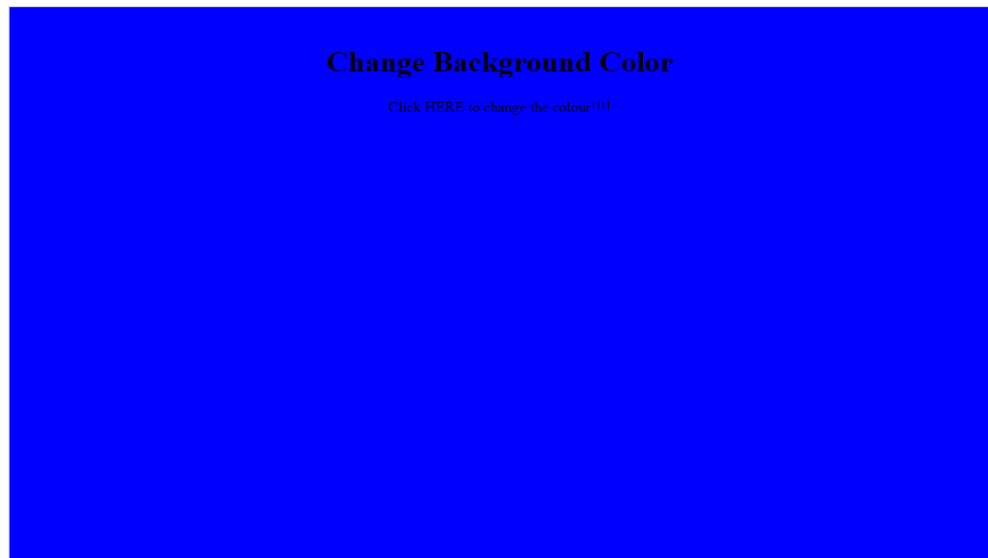
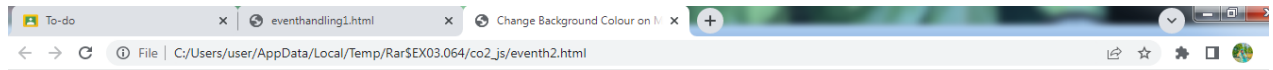
container.addEventListener('click', () => {

const colors = ['#f00', '#0f0', '#00f', '#ff0', '#0ff', '#f0f'];
```

20MCA133 Web Programming Lab Record

```
const randomColor = colors[Math.floor(Math.random() * colors.length)];  
container.style.backgroundColor = randomColor; });  
</script>  
</body>  
</html>
```

OUTPUT:



Program # 11

11. Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling mechanism.

PROGRAM CODE:

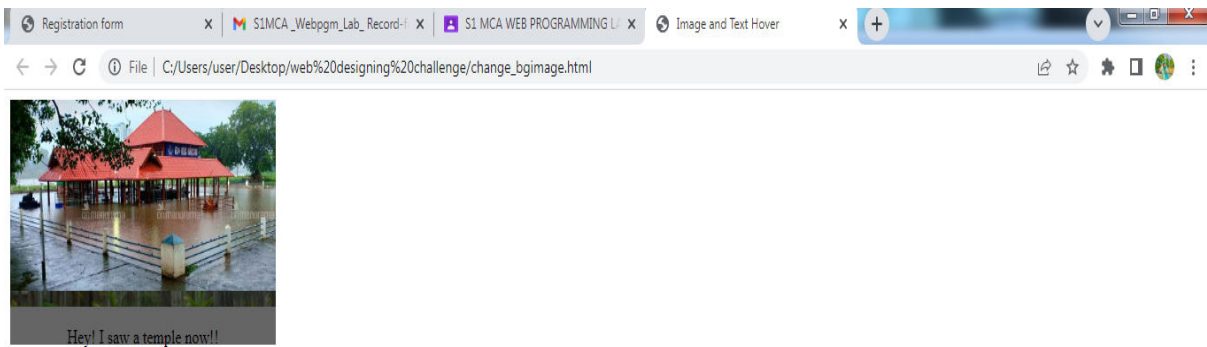
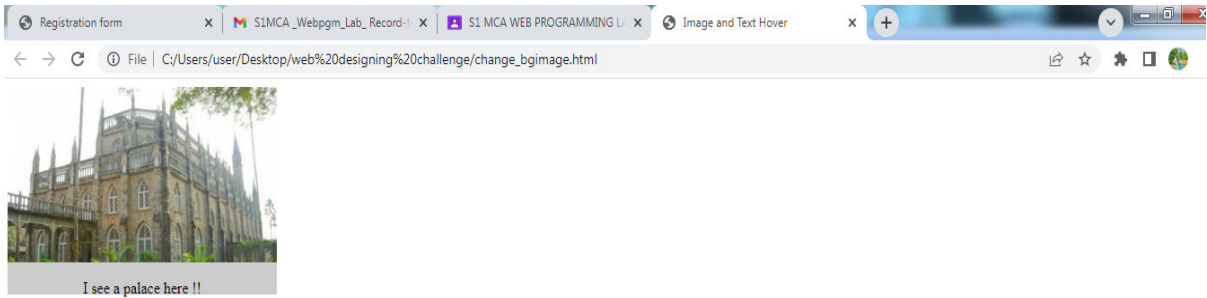
```
<html>
<head>
<meta charset="UTF-8">
<title>Image and Text Hover</title>
<style>
#image-container {
position: relative;
width: 300px;
height: 200px;
background-color: #ccc;
text-align: center;
}#image-container img {
width: 100%;
height: auto; }
#hidden-content {
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
background-color: rgba(0, 0, 0, 0.5);
color: cyan;
text-align: center;
display: none; }
```

```
</style>
</head>
<body>
<div id="image-container">

<p id="image-text">I see an apple here !!</p>
<div id="hidden-content">

</div>
</div>
<script>
const imageContainer = document.getElementById('image-container');
const hiddenContent = document.getElementById('hidden-content');
const imageText = document.getElementById('image-text');
imageContainer.addEventListener('mouseover', () => {
hiddenContent.style.display = 'block';
imageText.textContent = 'Hey! I saw a temple now!!'; });
imageContainer.addEventListener('mouseout', () => {
hiddenContent.style.display = 'none';
imageText.textContent = 'I see a palace here !!'; });
</script>
</body>
</html>
```

OUTPUT:



Program # 12

12. Design and develop a complete Online exam using Html, CSS and JavaScript.

PROGRAM CODE:

Quiz.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <link rel="stylesheet" href="quiz.css">

    <style type="">

        .container{

            padding-left: 20px;

            padding-top: 10px;

        }

    </style>

</head>

<body><div class="container">

    <h2>Instructions to follow:</h2>

    <p>1.You must use a functioning webcam and microphone.<br>

2.No cell phones or other secondary devices in the room or test area.<br>

3.Your desk/table must be clear or any materials except your test-taking device.<br>

4.No one else can be in the room with you.<br>

5.No talking.</p> <br>

</div>
```



```
<h1><center>GK QUIZ</center></h1>
<div class="panel">
  <div class="question" id="ques"></div>
  <div class="options" id="opt"></div>
  <button onclick="checkAns()" id="btn">SUBMIT</button>
  <div id="score"></div>
  <script src="quiz.js"></script>
</div>
</body>
</html>
```

Quiz.css

```
body {
  background-color: aliceblue;
}
```

```
.panel {
  margin-top: 8%;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  color: navy;
}
```

```
.question {
  font-size: 30px;
  margin-bottom: 20px;
}
```

```
.options {
  font-size: 20px;
```

```
display: grid;
grid-template-columns: repeat(2, 1fr);
grid-gap: 20px;
margin-top: 20px;
margin-bottom: 20px;
position: fixed;
top: 40%;
left: 40%;
}
```

```
button {
margin-right: 75px;
margin-top: 8%;
font-size: 20px;
padding: 10px 20px;
background-color: green;
color: white;
border: none;
cursor: pointer;
}
```

```
#score {
font-size: 30px;
color: darkslategray;
}
```

Quiz.js

```
const Questions = [{
  q: "What is capital of India?",
  a: [{ text: "Gandhinagar", isCorrect: false },
    { text: "Surat", isCorrect: false },
    { text: "Delhi", isCorrect: true },
```

```
{ text: "Mumbai", isCorrect: false }  
]  
  
,  
{  
  q: "What is the capital of Thailand?",  
  a: [{ text: "Lampang", isCorrect: false, isSelected: false },  
    { text: "Phuket", isCorrect: false },  
    { text: "Ayutthaya", isCorrect: false },  
    { text: "Bangkok", isCorrect: true }  
]  
  
,  
{  
  q: "What is the capital of Gujarat",  
  a: [{ text: "Surat", isCorrect: false },  
    { text: "Vadodara", isCorrect: false },  
    { text: "Gandhinagar", isCorrect: true },  
    { text: "Rajkot", isCorrect: false }  
]  
  
}  
  
]
```

```
let currQuestion = 0
```

```
let score = 0
```

```
function loadQues() {  
  const question = document.getElementById("ques")  
  const opt = document.getElementById("opt")
```

```
question.textContent = Questions[currQuestion].q;
opt.innerHTML = ""

for (let i = 0; i < Questions[currQuestion].a.length; i++) {
    const choicesdiv = document.createElement("div");
    const choice = document.createElement("input");
    const choiceLabel = document.createElement("label");

    choice.type = "radio";
    choice.name = "answer";
    choice.value = i;

    choiceLabel.textContent = Questions[currQuestion].a[i].text;

    choicesdiv.appendChild(choice);
    choicesdiv.appendChild(choiceLabel);
    opt.appendChild(choicesdiv);
}
}

loadQues();

function loadScore() {
    const totalScore = document.getElementById("score")
    totalScore.textContent = `You scored ${score} out of ${Questions.length}`
}

function nextQuestion() {
    if (currQuestion < Questions.length - 1) {
        currQuestion++;
    }
}
```

```
loadQues();
    } else {
        document.getElementById("opt").remove()
        document.getElementById("ques").remove()
        document.getElementById("btn").remove()
        loadScore();
    }
}

function checkAns() {
    const selectedAns =
    parseInt(document.querySelector('input[name="answer"]:checked').value);

    if (Questions[currQuestion].a[selectedAns].isCorrect) {
        score++;
        console.log("Correct")
        nextQuestion();
    } else {
        nextQuestion();
    }
}
```

OUTPUT:

Registration form x S1MCA_Webpgm_Lab_Record x S1 MCA WEB PROGRAMMING x Registration form x quiz.html

File | C:/Users/user/Desktop/web%20designing%20challenge/quiz.html

Instructions to follow:

- 1.You must use a functioning webcam and microphone.
- 2.No cell phones or other secondary devices in the room or test area.
- 3.Your desk/table must be clear or any materials except your test-taking device.
- 4.No one else can be in the room with you.
- 5.No talking.

GK QUIZ

☐ Gandhinagar ☐ Surat
☒ Delhi ☐ Mumbai

What is capital of India?

SUBMIT

Registration form x S1MCA_Webpgm_Lab_Record x S1 MCA WEB PROGRAMMING x Registration form x quiz.html

File | C:/Users/user/Desktop/web%20designing%20challenge/quiz.html

Instructions to follow:

- 1.You must use a functioning webcam and microphone.
- 2.No cell phones or other secondary devices in the room or test area.
- 3.Your desk/table must be clear or any materials except your test-taking device.
- 4.No one else can be in the room with you.
- 5.No talking.

GK QUIZ

You scored 3 out of 3

Registration form x S1MCA_Webpgm_Lab_Record x S1 MCA WEB PROGRAMMING x Registration form x quiz.html

File | C:/Users/user/Desktop/web%20designing%20challenge/quiz.html

Instructions to follow:

- 1.You must use a functioning webcam and microphone.
- 2.No cell phones or other secondary devices in the room or test area.
- 3.Your desk/table must be clear or any materials except your test-taking device.
- 4.No one else can be in the room with you.
- 5.No talking.

GK QUIZ

You scored 2 out of 3

Lab Cycle3

CO4: Do client-side & Server-side scripting

Program # 13

13. Build a PHP code to store name of students in an array and display it using print_r function. Sort and display the same using asort & arsort functions.

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<head>
<title>Student Names</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    margin: 20px;
  }
  .container {
    background-color: #fff;
    padding: 20px;
  }
  h2 {
    text-align: center;
    margin-bottom: 20px;
  }
  pre {
    background-color: #f9f9f9;
  }
</style>
```

```
</head>
<body>
  <div class="container">
    <h2>Student Names</h2>
    <?php
      $students = ["Suhana"=>"12", "Ameena"=>"34", "Karun"=>"54", "Fariza"=>"10",
        "Joviya"=>"65", "Chinnu"=>"20"];
      echo "<h3>Original array of students:</h3>";
      echo "<pre>";
      print_r($students);
      echo "</pre>";
      asort($students);
      echo "<h3>Array sorted in ascending order using asort:</h3>";
      echo "<pre>";
      print_r($students);
      echo "</pre>";
      arsort($students);
      echo "<h3>Array sorted in descending order using arsort:</h3>";
      echo "<pre>";
      print_r($students);
      echo "</pre>";
    ?>
  </div>
</body>
</html>
```


OUTPUT:

```
Student Names

Original array of students:

Array
(
    [Suhana] => 12
    [Ameena] => 34
    [Karun] => 54
    [Fariza] => 10
    [Joviya] => 65
    [Chinnu] => 20
)

Array sorted in ascending order using arsort:

Array
(
    [Fariza] => 10
    [Suhana] => 12
    [Chinnu] => 20
    [Ameena] => 34
    [Karun] => 54
    [Joviya] => 65
)

Array sorted in descending order using arsort:

Array
(
    [Joviya] => 65
    [Karun] => 54
    [Ameena] => 34
    [Chinnu] => 20
    [Suhana] => 12
    [Fariza] => 10
)
```

Program # 14

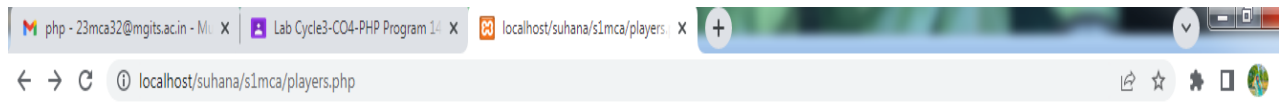
14. Build a PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

PROGRAM CODE:

```
<html>
<head>
<style>
    table {
        border-collapse: collapse;
        width: 50%;
        margin: 20px auto;
    }
    th {
        border: 1px solid #dddddd;
        text-align: left;
        padding: 8px;
    }
    th {
        background-color: #f2f2f2;
    }
</style>
</head>
<body>
<?php
if (isset($_POST['submit'])) {

    $cricketers = $_POST['cricketers'];
    $cricketers = explode(',', $cricketers);
```

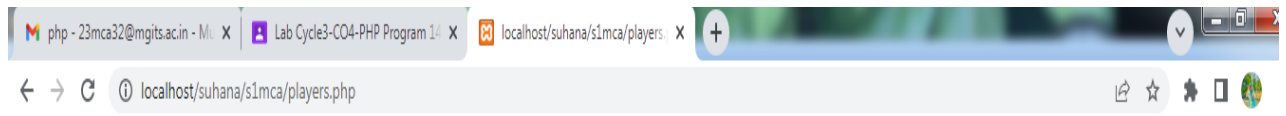

OUTPUT:



Indian Cricket Players

Enter the name of players(comma separated):

Submit



| Names of Indian cricket Players |
|---------------------------------|
| Mohammed Shami |
| Virat Kohli |
| Rohit Sharma |
| KL Rahul |
| Hardik Pandya |

Program # 15

15. Design a registration form in HTML, and do necessary validations using PHP

PROGRAM CODE:

```
<!DOCTYPE html>

<html>

<head>

    <title>Registration Form</title>

    <body bgcolor="#B0C4DE">

</head>

<body>

    <form method="post">

        <br>

        <h1>Registration Form</h1>

        <hr color="black">

        <br>

        Name: <input type="text" name="fname" value=""><br><br>

        Age: <input type="text" name="age" value=""><br><br>

        Date Of Birth: <input type="text" name="dob" value=""
placeholder="dd/mm/yy"><br><br>

        Email Id: <input type="text" name="Email" value=""><br><br>

        Password: <input type="password" name="pass" value=""><br><br>

        <input type="submit" name="submit" value="Submit">

    </form>

    <?php

    $fname = $age = $dob = $mail = $pass = "";

    if ($_POST) {
```

```
$fname = $_POST['fname'];
$age = $_POST['age'];
$dob = $_POST['dob'];
$mail = $_POST['Email'];
$pass = $_POST['pass'];

$errors = array();

if (empty($fname) || !preg_match("/^[a-zA-Z'-]+$/", $fname)) {
    $errors[] = "Enter a valid First Name containing only letters";
}

if (empty($age) || !is_numeric($age) || $age <= 0 || $age >= 150) {
    $errors[] = "Enter a valid Age ";
}

if (empty($dob)) {
    $errors[] = "Enter a valid DOB";
}

if (empty($mail) || !filter_var($mail, FILTER_VALIDATE_EMAIL)) {
    $errors[] = "Enter a valid Email Id";
}

if (empty($pass) || strlen($pass) < 6) {
    $errors[] = "Enter a valid Password (minimum 6 characters)";
}

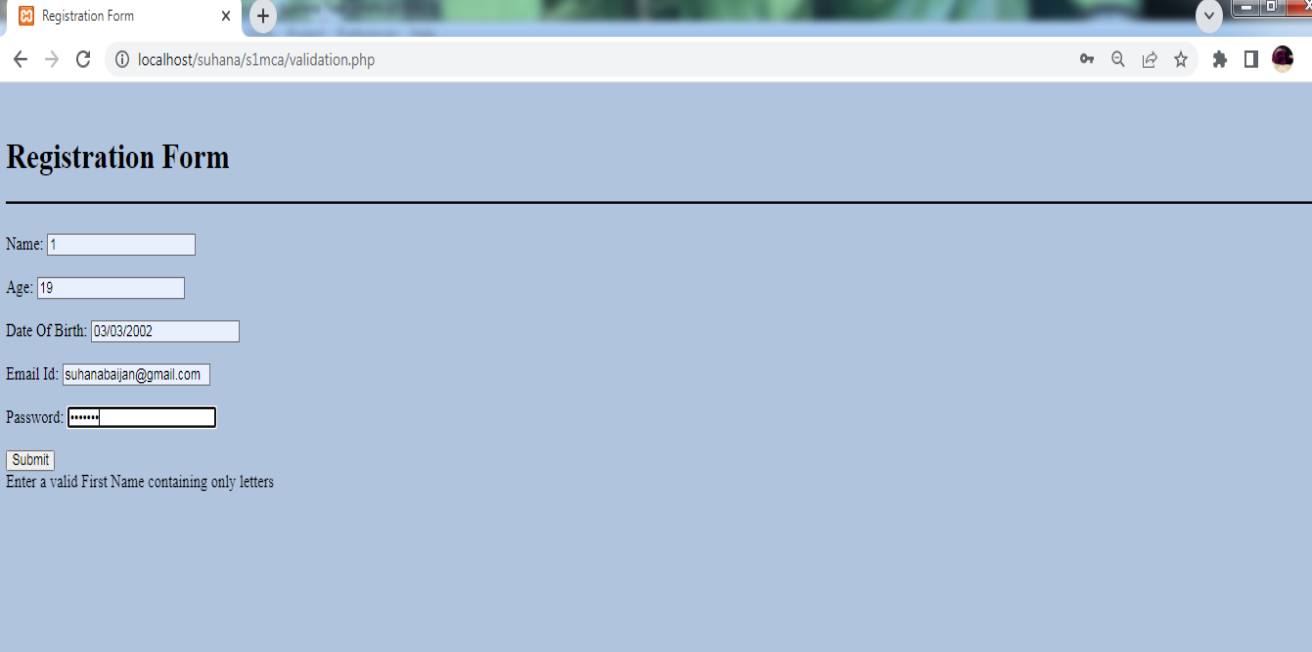
if (empty($errors)) {
    echo "Registered Successfully";
} else {
```

```
        foreach ($errors as $error) {  
            echo $error . "<br><br>";  
        }  
    }  
}  
?>
```

</body>

</html>

OUTPUT: name validation

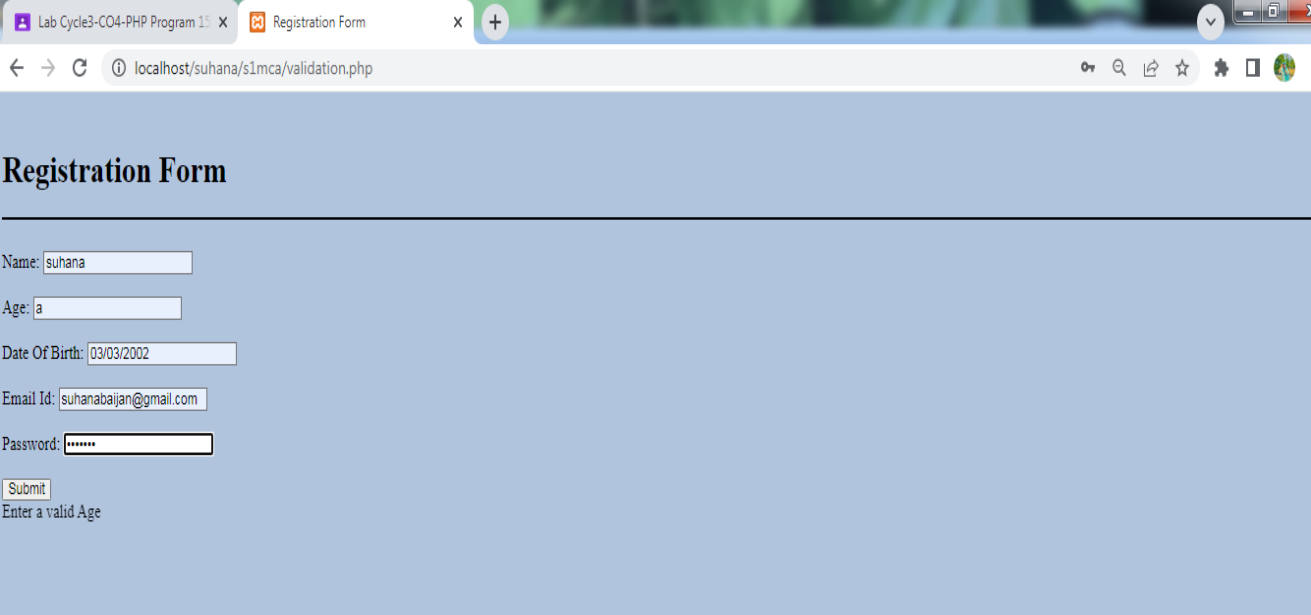


The screenshot shows a web browser window with the title "Registration Form". The address bar displays "localhost/suhana/s1mca/validation.php". The form contains the following fields and values:

- Name: 1
- Age: 19
- Date Of Birth: 03/03/2002
- Email Id: suhanabajan@gmail.com
- Password: [masked]

Below the fields is a "Submit" button. A red error message is displayed below the button: "Enter a valid First Name containing only letters".

Age validation:

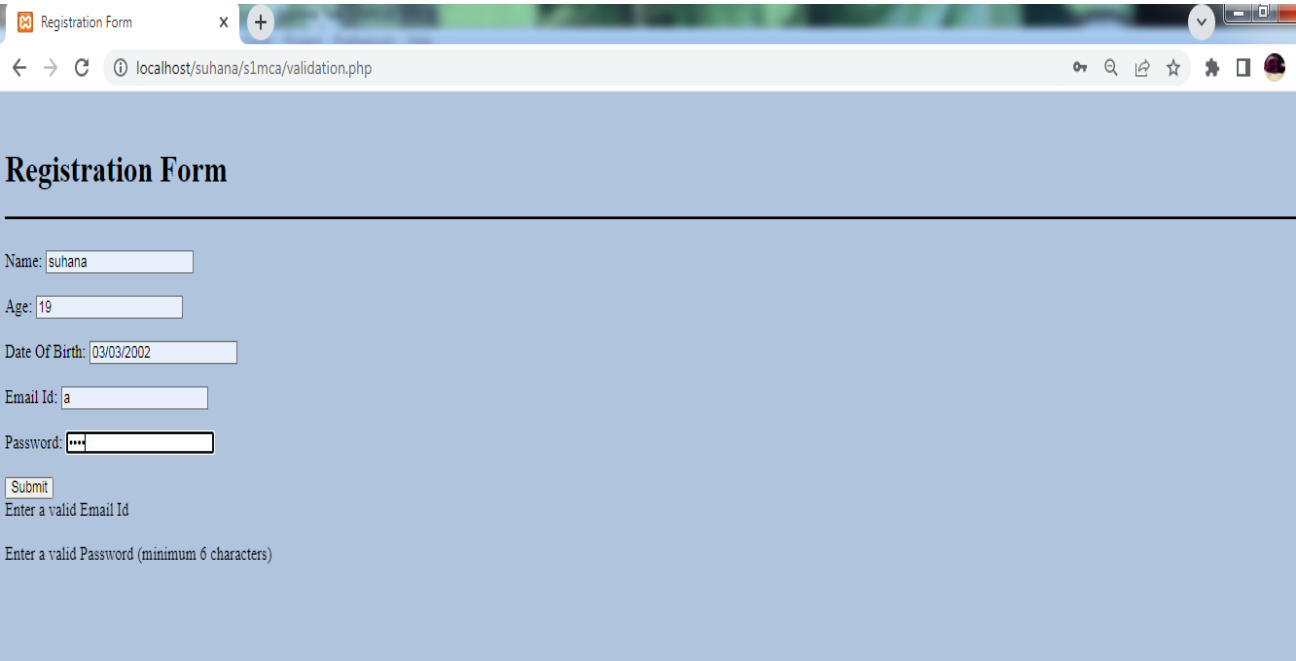


The screenshot shows a web browser window with two tabs: 'Lab Cycle3-CO4-PHP Program 15' and 'Registration Form'. The address bar shows 'localhost/suhana/s1mca/validation.php'. The page title is 'Registration Form'. The form contains the following fields and values:

- Name: suhana
- Age: a
- Date Of Birth: 03/03/2002
- Email Id: suhanabajan@gmail.com
- Password: *****

Below the fields is a 'Submit' button. Below the button, the error message 'Enter a valid Age' is displayed.

E-mail and Password validation:



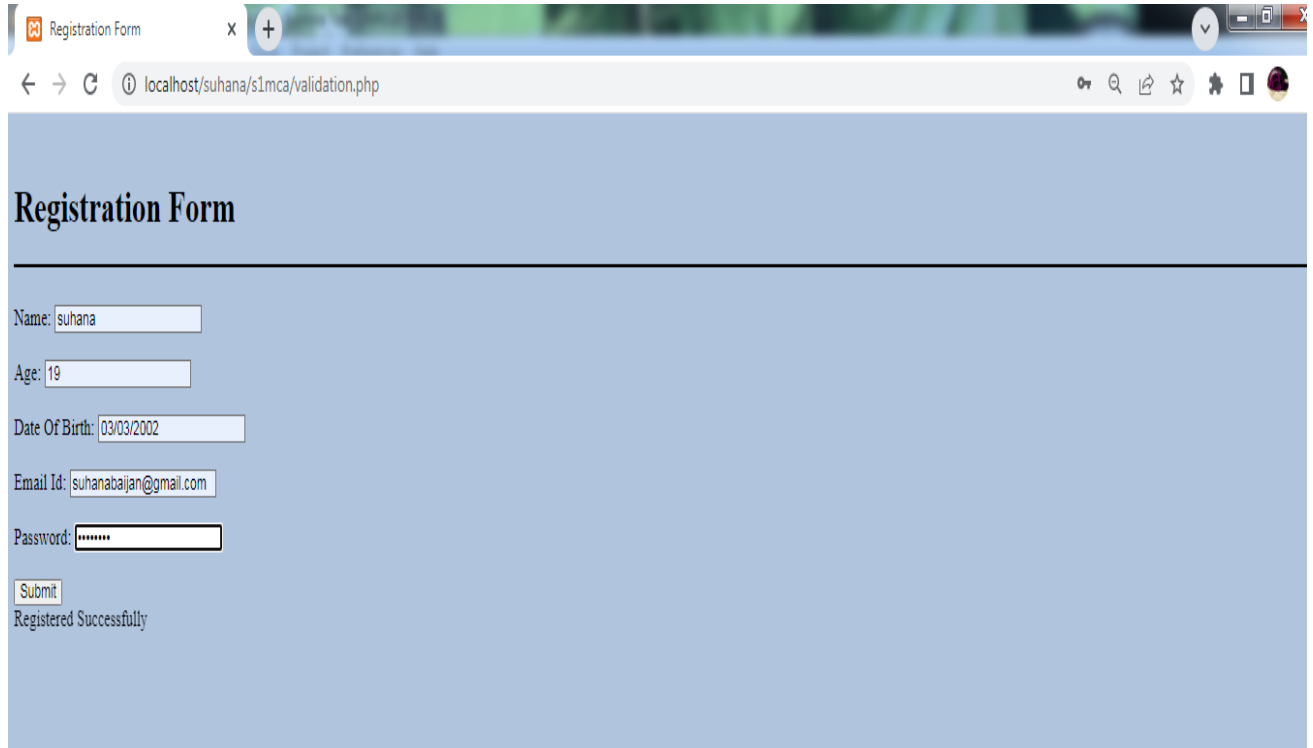
The screenshot shows the same web browser window as above. The form fields and values are:

- Name: suhana
- Age: 19
- Date Of Birth: 03/03/2002
- Email Id: a
- Password: ****


Below the fields is a 'Submit' button. Below the button, two error messages are displayed:

- Enter a valid Email Id
- Enter a valid Password (minimum 6 characters)

Form validation:



The screenshot shows a web browser window with the title "Registration Form". The address bar displays "localhost/suhana/s1mca/validation.php". The page content includes a heading "Registration Form" followed by a form with the following fields: "Name:" with the value "suhana", "Age:" with the value "19", "Date Of Birth:" with the value "03/03/2002", "Email Id:" with the value "suhanaabaijan@gmail.com", and "Password:" with masked characters. A "Submit" button is present, and below it, the text "Registered Successfully" is displayed.



The screenshot shows the same web browser window, but the form fields are empty. Below the "Submit" button, several validation error messages are displayed: "Enter a valid First Name containing only letters", "Enter a valid Age", "Enter a valid DOB", "Enter a valid Email Id", and "Enter a valid Password (minimum 6 characters)".

Program # 16

16. Compose Electricity bill from user input based on a given tariff using PHP.

PROGRAM CODE:

```
<!DOCTYPE html>

<head>

<title>Electricity Bill</title>

</head>

<center>

<?php

$result_str = $result = "";

if (isset($_POST['unit-submit'])) {

    $units = $_POST['units'];

    if (!empty($units)) {

        $result = calculate_bill($units);

        $result_str = 'Total amount of ' . $units . ' - ' . $result;

    }

}

function calculate_bill($units) {

    $unit_cost_first = 3.50;

    $unit_cost_second = 4.00;

    $unit_cost_third = 5.20;

    $unit_cost_fourth = 6.50;

    if($units <= 50) {

        $bill = $units * $unit_cost_first;

    }

    else if($units > 50 && $units <= 100) {

        $temp = 50 * $unit_cost_first;

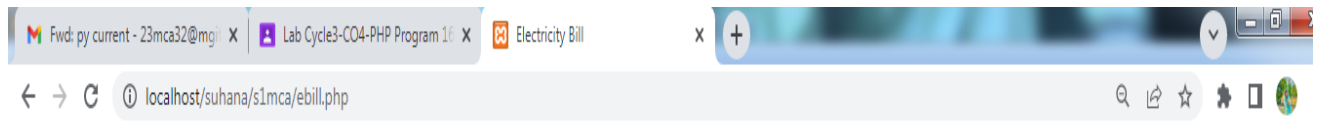
        $remaining_units = $units - 50;
```

```

        $bill = $temp + ($remaining_units * $unit_cost_second);
    }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 * $unit_cost_second);
        $remaining_units = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
        $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
        $remaining_units = $units - 250;
        $bill = $temp + ($remaining_units * $unit_cost_fourth);
    }
    return number_format((float)$bill, 2, '.', '');
}
?>
<body>
<div id="page-wrap">
<h1> ELECTRICITY BILL</h1>
<form action="" method="post" id="quiz-form">
    <input type="number" name="units" id="units" placeholder="Please enter no. of
Units" />
    <input type="submit" name="unit-submit" id="unit-submit" value="Submit" />
</form>
<div>
    <?php echo '<br />' . $result_str; ?>
</div>
</div>
</center>
</body>
</html>

```

OUTPUT:



ELECTRICITY BILL

Total amount of 32 - 112.00

Lab Cycle4

CO3: Design front end web page and connect to the back-end databases.

Program # 17

17. Develop a PHP program to connect to a database and retrieve data from a table and show the details in a neat format.

PROGRAM CODE:

Connection.php

```
<?php
$server="localhost";
$username="root";
$password="";
$dbname="college";
$connection=mysqli_connect($server,$username,$password,$dbname);
if(! $connection){
    die("Connection Failed");
}
?>
```

Insertion.php

```
<html>
<head>
<style type="text/css" >
Body{ background-color:powderblue;
border: 140px solid DodgerBlue;
padding: 8px;
} .frm{width: 100%;
font-weight: bold;
font-size: 15px;
background-width: 5px black;
font-family:Calibri;
```



```
<th>rollno</th>
<th>name</th>
<th>age</th>
<th>emailid</th>
</tr>";
    echo "<tr>";
    echo "<td>".$rollno," </td>";
    echo "<td>".$name," </td>";
    echo "<td>".$age," </td>";
    echo "<td>".$emailid," </td>";
    echo "</tr></table>";}
?>
</body>
</html>
```

OUTPUT:

STUDENT REGISTRATION

roll_no:

student_name:

age:

emailid:

Successfully Added into database

inserted values

| rollno | name | age | emailid |
|--------|------|-----|--------------------|
| 23 | sana | 15 | sana2008@gmail.com |

Lab Cycle4

C05: Develop web applications

Program # 18

18. Develop an application in PHP and MySQL, to accept book details viz. Book id, title, authors, edition and publisher from an HTML form in a web page and save the records in a database and to search for a book using the author name and display the search results.

PROGRAM CODE:

[illegible]


```

echo "Book id: ".$bid.'<br>';
echo "Title: ".$title.'<br>';
echo "Author: ".$author.'<br>';
echo "Publisher: ".$publ.'<br>';
echo "Edition: ".$edt.'<br>';
$sql="insert into book values('$bid', '$title', '$author', '$publ','$edt')";
if (mysqli_query($conn, $sql)) {
    echo "<br>New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
}
if(isset($_POST['search']))
{
    $author = $_POST['author'];
    $sql="select * from book where author='$author'";
    $res= mysqli_query($conn, $sql);
    $totRows = mysqli_num_rows($res);
    if($totRows==0)
    {
        echo "No records found!";
    }
    echo "<center><table><tr>";
    echo "<th>Author
name</th><th>Id</th><th>Title</th><th>Edition</th><th>Publisher</th>";
    echo "</tr><tr>";
    while($row = mysqli_fetch_assoc($res))
    {
        echo "<td>".$row["author"]."</td>";
        echo "<td>".$row["bid"]."</td>";
        echo "<td>".$row["title"]."</td>";

```

20MCA133 Web Programming Lab Record

```
        echo "<td>".$row["edt"]."</td>";
        echo "<td>".$row["publ"]."</td>";
        echo "</tr>";
    }
    echo "</table></center>";
}
mysqli_close($conn);
?>
</div>
</body>
</html>
```

OUTPUT:

The screenshot shows a web browser window with the address bar displaying 'localhost/suhana/s1mca/book.php'. The page content is a light blue box with a dark blue border. Inside the box, the title 'Book details' is underlined. Below the title, there are five input fields labeled 'Book id:', 'Title:', 'Author:', 'Publisher:', and 'Edition:'. A 'Submit' button is positioned below these fields. Underneath the 'Submit' button, the text 'Search Book details' is displayed. Below this, there is a search form with the label 'Author:' followed by an input field and a 'Search' button. At the bottom of the box, the following text is displayed: 'Connected successfully', 'The values are:', 'Book id: 2', 'Title: The Alchemist', 'Author: Paulo Coelho', 'Publisher: Harper Torch', 'Edition: 1', and 'New record created successfully'.

20MCA133 Web Programming Lab Record

Browser tabs: (no subject) - 23mca32@mgit: X | Lab Cycle 4 -CO5- PHP-MySQL X | localhost/suhana/s1mca/book X | localhost / 127.0.0.1 / books / X | The Alchemist (novel) - Wikip X

Address bar: localhost/suhana/s1mca/book.php

Book details

Book id:

Title :

Author :

Publisher:

Edition:

Search Book details

Author:

Connected successfully

| Author name | Id | Title | Edition | Publisher |
|--------------|----|---------------|---------|--------------|
| Paulo Coelho | 2 | The Alchemist | 1 | Harper Torch |