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AP LAB FILE

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BRANCH-CSE

1-CREATING AN HTML WEB PAGE FORMS

PROCEDURE

<FORM> element defines to collect user information.

<input> is used to define user input.

<label> is used to define input heading.

We use <submit> button to submit the information.

The <action> button is used to define the action when submit button is clicked.

<target> attribute specifies whether the action page will open in same page or in new tab.

There are two types of method attribute GET and POST.

If we use GET method then the data will be available in the page's address box.

The POST method does not display the information in the address field. <name> attribute must be specified with the input element so as to perform action using action.php.

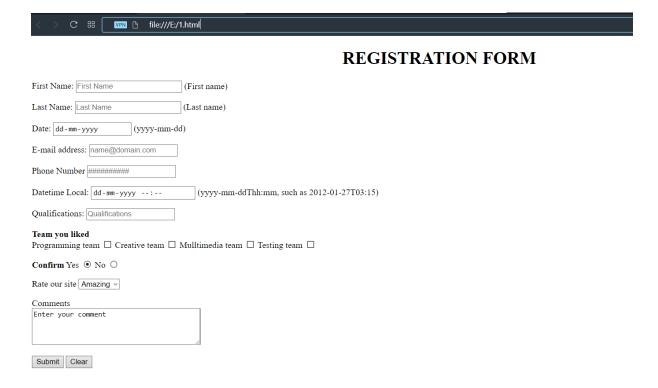
These are tags and attributes used in creating the HTML form page.

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>Register</title>
</head>
<body>
<center><h1>REGISTRATION FORM</h1></center>
<h5><time></time></h5>
<feildset>
<form
         action="meta.html" method="post"
autocomplete="on">
<!--hidden input type
                           contains
                                     hidden
information that will also be processed in
action browser-->
<input
        type="hidden" name="recipient"
value="">
<input type="hidden" name="subject" value="">
```

```
type="hidden" name="redirect"
<input
value="">
<!--input type text inserts a text feild to
be input by user-->
<feildset><label>First Name:
<input type="text" placeholder="First Name"</pre>
id="firstname"name="name"
                                  size="25"
maxlength="30">
</label>(First name)</feildset>
<label>Last Name:
<input type="text" placeholder="Last Name"</pre>
id="lastname"name="name"
                                  size="25"
maxlength="30">
</label>(Last name)
>
<label>Date:
<input type="date"/>
(yyyy-mm-dd)
</label>
<label>E-mail address:
                             name="details"
<input
           type="email"
placeholder="name@domain.com"
required></label>
<label>Phone Number
            type="tel"
<input
                             name="details"
placeholder="#########"
                           pattern="\d{10}"
required></label>
>
<label>Datetime Local:
<input type="datetime-local"/>
(yyyy-mm-ddThh:mm, such as 2012-01-27T03:15)
</label>
>
```

```
<label for="txtList">Qualifications:
              type="text"
                                 id="txtList"
<input
placeholder="Qualifications"
list="Qualifications">
<datalist id="Qualifications">
<option value="Matric">
<option value="High School">
<option value="UG">
<option value="PG">
</datalist>
</label>
>
<strong>Team you liked</strong><br>
<label>Programming team
<input type="checkbox" name="teamselection"</pre>
value="programming">
</label>
<label>Creative team
                         name="teamselection"
<input type="checkbox"</pre>
value="creative">
</label>
<label>Mulltimedia team
                        name="teamselection"
<input type="checkbox"</pre>
value="multimedia">
</label>
<label>Testing team
<input type="checkbox"</pre>
                         name="teamselection"
value="testing">
</label>
>
<strong>Confirm</strong>
<label>Yes
         type="radio"
                          name="confirmation"
<input
value="yes" checked>
</label>
<label>No
                          name="confirmation"
<input
         type="radio"
value="no">
<!--name class must be same
                                 in
                                     a given
paragraph-->
```

```
</label>
>
<label>Rate our site
<select name="rating">
<option selected>Amazing</option>
<option>10</option>
<option>9</option>
<option>8</option>
<option>7</option>
<option>6</option>
<option>5</option>
<option>4</option>
<option>3</option>
<option>2</option>
<option>1</option>
<option>Awful</option>
</select>
</label>
>
<label>
Comments<br>
             name="comments"
                                    rows="4"
<textarea
cols="40">Enter your comment</textarea>
</label>
>
<input type="submit" value="Submit">
<input type="reset" value="Clear">
</form>
</feildset>
</body>
</html>
```



2-CREATING HOME PAGE USING HTML

PROCEDURE

In this program I have used both HTML and CSS to make the page creative and look great.

The <style> tag is used to apply various CSS to the program such as background colour, text colour, text (italics, bold, underlined) etc.

In the <body> I have used <div> tag to make separate divisions for separate text and to apply different CSS to different divisions.

The <id> tag is used to make separate ids for various attributes and to apply different formatting styles to each of them in the <style> tag.

The tag defines the unordered list and defines the list items.

 defines the ordered list, we can also define whether we want to use numbers in list or characters to define various list items in an ordered list.

The tag is used to add an image to our HTML page.

I have also embedded a youtube video in the HTML page using the <iframe> tag and <align> attribute to define the alignment of the frame with respect to the web page.

These are tags and attributes used in creating HOME PAGE USING HTML.

```
text-decoration-color: rgb(57, 99, 238);
}
#h2 {
    text-emphasis-color: rgb(84, 119, 226);
    position: relative;
     left: 2000px;
}
body {
    margin: 0px 0px 0px 0px;
    background-color: black;
    color: aliceblue ;
}
#frame {
    padding-top: 50px;
    padding-right: 10px;
}
#earth {
    border-radius: 300px;
    float: center;
    padding-left: 10px;
}
#whole {
background-color: gray;
border-radius: 12px;
margin: 0px 100px 0px 100px;
padding-left: 10px;
padding-bottom: 10px;
```

```
padding-right: 10px;
              padding-top: 50px;
              }
              #about-earth {
                   text-align: center;
                   text-size-adjust:150%;
              }
              #ribon {
                   position: fixed;
                   background-color: lightslategray;
                   border-radius: 20px;
                   margin-left: auto;
                   margin-right: auto;
                   width: 100%;
                   text-align: center;
                   font-size: large;
              }
              #button {
                   border-radius: 10px;
                   font-family: 'Franklin Gothic Medium', 'Arial
Narrow', Arial, sans-serif;
                   font-weight: 200;
                   background-color: dodgerblue;
                   height: 7%;
                   width: 7%;
              }
```

```
background-color: darkblue;
                  color: antiquewhite;
             }
             #moon {
                 text-decoration: none;
             }
             #moon:hover {
                 color:darkblue;
                 text-decoration: underline;
                 text-transform: uppercase;
             }
         </style>
    </head>
    <body>
               id="ribon">Welcome to the 1<sup>st</sup>
website . Please suggest changes &#1230nly Those that I can
change&#125</div>
           id="whole"><h1</pre>
                                         align="center">Hello
    <div
World!!</h1>
    <h2 align="center">A few facts about world we
live in</h2>
                 id="frame"
                                width="560"
                                                 height="315"
    <iframe
src="https://www.youtube.com/embed/FG0fTKAqZ5g" frameborder="0"
allow="accelerometer; autoplay; encrypted-media;
                                                  gyroscope;
picture-in-picture" allowfullscreen align="right"></iframe>
                                                   id="earth"
    <img
src="https://cdn.britannica.com/25/160325-050-EB1C8FB7/image-
instruments-Earth-satellite-NASA-Suomi-National-2012.jpg"
height="360" width="360">
```

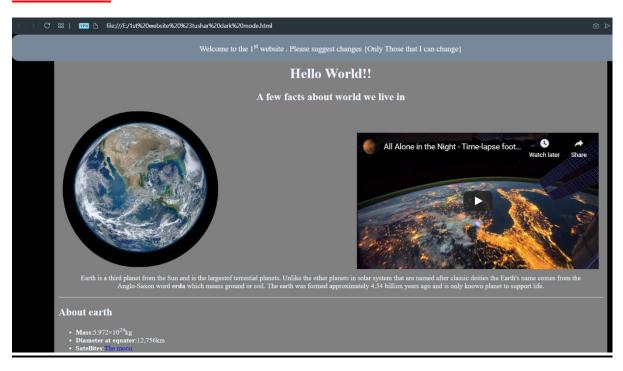
#button:hover {

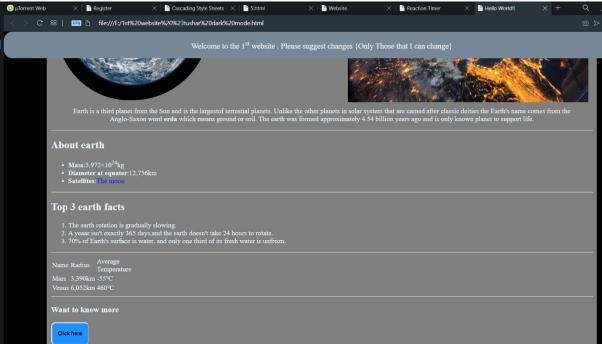
Earth is a third planet from the Sun and
is the largestof terrestial planets. Unlike the other planets in
solar system that are named after classic deities the Earth's
name comes from the
>

Anglo-Saxon word erda which means ground or soil. The earth was formed approximately 4.54 billion years ago and is only known planet to support life.

```
<hr>>
    <h2>About earth</h2>
    <u1>
        <b>Mass</b>:5.972&#215;10<sup>24</sup>kg
        <b>Diameter at equater</b>:12,756km
                                               id="moon"
        <b>Satellites</b>:<a
href="https://en.wikipedia.org/wiki/Moon">The moon</a>
    <hr>>
    <h2>Top 3 earth facts</h2>
    <01>
        The earth rotation is gradually slowing.
        A yeaar isn't exactly 365 days, and the earth doesn't
take 24 hours to rotate.
        70% of Earth's surface is water, and only one
third of its fresh water is unfrozn.
    <hr>>
    <thead>
```

```
Name
                Radius
                Average<br>Temperature
             </thead>
             Mars
                3,390km
                -55&#8451
             Venus
                6,052km
                460&#8451
             <hr>>
<h3>Want to know more</h3>
         action="https://www.livescience.com/19102-amazing-
<form
facts-earth.html">
      <input id="button" type="submit" value="Click here"</pre>
target="_blank">
   </form></div>
   </body>
</html>
```





3- CREATING XHTML AND CSS AND UNDERSTANDING ITS USE IN CREATING WEB PAGES

PROCEDURE

XHTML or Extensible Hypertext Markup Language is often referred to as strictly followed HTML document. There are certain compulsory and predefined rules:

- 1-Tags must be properly nested.
- 2-Tag name must be in lowercase.
- 3-All tags must be properly closed even empty tags.

It was developed by W3C i.e. WORLD WIDE WEB CONSORTIUM.

It consists of 3 parts DOCTYPE, HEAD and BODY.

All the other tags and attributes are same as simple html document.

```
<!DOCTYPE
html>
             <html lang="en" dir="ltr">
               <head>
                 <meta charset="utf-8">
                 <title>Cascading Style Sheets</title>
                 <style media="screen" type="text/css">
                   body
                   {
                     background-color: rgb(0,0,122,0.3);
                     //background-image: url(img1.png);
                       background-repeat: no-repeat;
                   //
                       background-size: contain;
                   //
                   }
                   p
                     padding-top:10pt;
                     paddind-bottom:10pt;
                     text-indent: 1em;
                   }
```

```
em
      {
        font-weight : normal;
        color : #6F0F0F;
      h1
        font-family : tahoma,san-
serif, helvetica;
        border-bottom:2px dotted blue;
      }
      p
      {
          font-size : 12pt;
          font-family : san-serif, arial;
      .special
        color : purple;
      a
        text-decoration:none;
      a:hover
        text-decoration: underline;
        font-weight:bold;
        color:green;
      }
      a:visited
        color:hotpink;
      a:active
        background-color:rgba(126, 0, 0,
0.4);
      }
      li
        margin-left: 40px;
```

```
}
     aside
       font-size: .8em;
       float:right;
     }
     table
       border-collapse: collapse;
       border-style:outset;
     }
   </style>
  </head>
  <body>
   <h1 class="special"><center>Cascading
Style Sheets(CSS3)</center></h1>
   <a href="#W3C">Go to W3C</a>
   <h3>WHAT IS CSS3?</h3>
   Formatting and presentation of any
HTML document is done by using cascading
style sheets(CSS3).
   The th\ree
way of using CSS3 are : 
   <u1>
     INLINE STYLING
     EMBEDDED STYLE SHEETS
     LINKING EXTERNAL STYLE SHEETS
   This page is to demonstrate the use of
CSS3 in our HTML document. The CSS is used to
style your html doc. file as it can be used
in three ways by embedding it in your elememt
tag the second way is to use the style
element tag in the head of your HTML file and
then calling the following tag for styling
the last method is to create a seperate file
of css and then linking it to yur html doc.
file using link tag and href attribute.
   The process of linking external style
sheets to your HTML document is also known as
skinning.
   <h3>Benefits of using CSS3</h3>
```

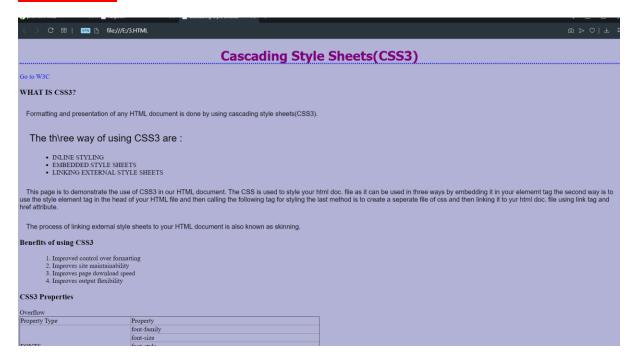
```
Improved control over
formatting
   Improves site maintainability
   Improves page download speed
   Improves output flexibility
  <h3 >CSS3 Properties</h3>
  <thead>
  Property Type
  Property
  </thead>
  FONTS
  font-family
  font-size
  font-style
  font-weight
  font-face
  TEXT
  letter-spacing
  line-height
  text-align
  td>text-decoration
```

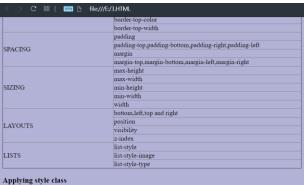
```
td>text-indent
COLOR AND BACKGROUND
background-color
background-image
background-position
background-repeat
color
BORDERS
border-color
>
border-width
border-style
border-top
border-top-color
>
border-top-width
SPACING
padding
```

```
padding-top, padding-bottom, padding-
right, padding-left
 margin
 margin-top, margin-bottom, margin-
SIZING
 max-height
 max-width
 min-height
 min-width
 width
 LAYOUTS
 bottom,left,top and right
 Overflow
 position
 visibility
 z-index
```

```
LISTS
   list-style
   >
   list-style-image
   list-style-type
   <h3>Applying style class</h3>
   To apply style class to specify the
special style to a particular paragraph over
a html document containing several paragraph
element in the html document user shall
declare the class attribute in that
particular html element and then call it
later in the embedded style sheet by using
period(.)class. 
<details><summary>Psuedo Class</summary>
Psuedo class gives you access to
information that's not declared in the
document, such as whether the mouse hovering
over an element or whether the user
previously clicked(visited) a particular
hyperlink
</details>
<h3>Measurement Unit in CSS</h3>
You can classify the measurement in CSS3
in the following type :
<01>
  Relative : A pixel is a relative-length
measuement- it varies in size, based on
screen resolution. Other relative length
includes em(which, as a measurement means the
font's uppercase M height-the most frequently
used font measurement), ex(the font's x-
height-usually set to a lowercase x's heigth)
and percentage(e.g., font-size:50%)
  Absolute : They do not vary in size
based on the system. These units are
inches(in), centimeter(cm), millimeter(mm),
```

```
point(pt; 1pt=1/72inches), and picas(pi;
1pc=12points)
Whenever possible, use relative-length
measurement. If you use absolute-length
measurement, your document may not scale well
on some client browsers(e.g., smartphones)
<aside id="W3C">
      To ensure that your style sheets work
in various web browsers, test them on many
web browsers, and use the <a
href="http://www.google.com"
target=" blank">W3C CSS validator.</a>
    </aside>
  </body>
</html>
```





To apply style class to specify the special style to a particular paragraph over a html document containing several paragraph element in the html document user shall declare the class attribute in that particular html element and then call it later in the embedded style sheet by using period(.)class.

► Psuedo Class

SIZING

min-height min-width width

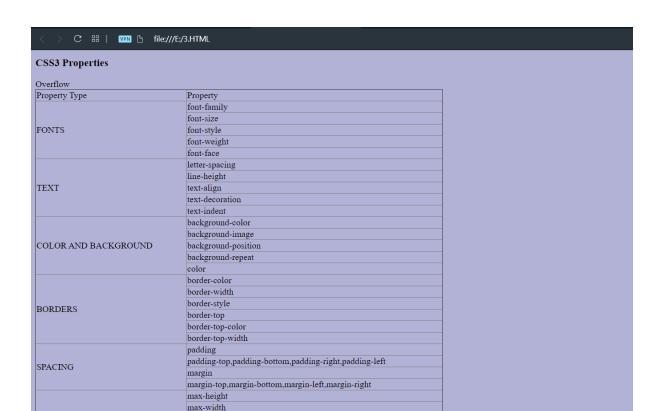
bottom,left,top and right

Measurement Unit in CSS

You can classify the measurement in CSS3 in the following type :

- 1. Relative: a pixel is a relative-length measuement- it varies in size, based on screen resolution. Other relative length includes em(which, as a measurement means the font's uppercase M height-the most frequently used font measurement), exithe font's x-height-usually set to a lowercase x's height) and percentage(e.g., font-size:50%)
 2. Absolute: They do not vary in size based on the system. These units are inches(in), centimeter(cm), millimeter(mm), point(pt; 1pt=1/72inches), and picas(pi; 1pc=12points)

Whenever possible, use relative-length measurement. If you use absolute-length measurement, your document may not scale well on some client browsers(e.g., smartphones)



4-SETTING UP AND CONFIGURATION OF APACHE TOMCAT SERVER

Procedure:-

Step 1

Download and Install Tomcat

1. Go to http://tomcat.apache.org/download-70.cgi then go to the Binary Distribution/Core/

and download the "zip" package (for example "apache-tomcat-7.0.40.zip")

2. Now **unzip** the downloaded file into a directory of our choice.

Step 2

Check the installed directory to ensure it contains the following sub-directories:

- a.bin folder
- b. logs folder
- c. webapps folder
- d. work folder
- e. temp folder
- f. conf folder
- g. lib folder

Step 3

Create Environment variable JAVA HOME.

Configure Tomcat Server

The configuration files of the Apache Tomcat Server are located in the "conf" subdirectory of our

Tomcat installed directory, for example "E:\myserver\tomcat7.0.40\conf". There are 4 configuration

XML files:

- 1. context.xml file
- 2. tomcat-users.xml file
- 3. server.xml file
- 4. web.xml file

Before proceeding, make a BACKUP of the configuration files.

Step 4(a) "conf\web.xml"; Enabling a Directory Listing

Open the configuration file "web.xml". We shall enable the directory listing by changing "listings" from

"false" to "true" for the "default" servlet.

<param-value>true</param-value> like:

Step 4(b) "conf\server.xml file"; set the TCP Port Number

Open the file "server.xml" in a text editor.

The default port number of Tomcat is 8080. We can change it according to our need.

Step 4(c) "conf\context.xml"; Enabling Automatic Reload

In that we set reloadable="true" to the <Context> element to enable automatic reload after code

Step 4(d) (Optional) "conf\tomcat-users.xml"

It is used to manage Tomcat by adding the highlighted lines, inside the <tomcatusers> elements.

In that we can add a password and username as an optional step.

Step 5

Now, start the tomcat server

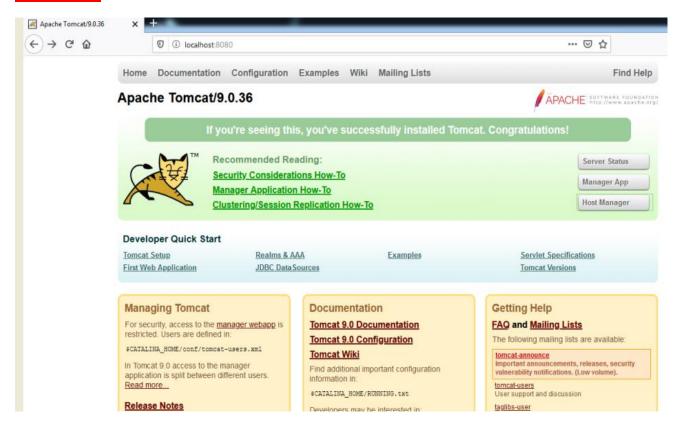
Executable programs and scripts are kept in the "bin" sub-directory of the Tomcat installed directory

Step 5(a) Start Server

Step 5(b) Access the Server

Open a browser then enter the URL "http://localhost:8080" to access the Tomcat server's welcome page.

Output-



5-UNDERSTANDING MODIFICATION OF WEB.XML

PROCEDURE

The web.xml file is deployment descriptor for a servlet-based java web application.

Among other things, it declares which servlets exist and which URLs they handle. The part you cite defines a Dervlet Filter.

Servlet filters can do all kinds of preprocessing on requests.

```
<?xml version="1.0" encoding="UTF-8"?>
```

Advantages of web.xml files

- The first benefit of the xml is we can write it in our won markup language. There is a no restricted to limited sets of tags. By defining our own tag we can create a markup language in terms of specific problem.
- Searching the data is easy and efficient.

\leftarrow \rightarrow \cdot \mathbf{C} . \odot File | C:/Users/Tushar/Desktop/TUSHAR.html

Paras Tushar Reminder Have a great day!

6-CREATING WEBSITES USING PHP

PROCEDURE

PHP stands for Hypertext Preprocessor.

\$ Symbol is used to define a variable in php.

POST method is used to get all the information input by the user after he/she clicks the submit button.

<input> tag is an attribute of <form> element. It is used to input various data from the user.

The php is written inside <?php....?> .

"echo" is used to print something on the screen.

```
<html>
       <head>
         <meta charset="UTF-8">
         <meta name="viewport" content="width=device-width,</pre>
       initial-scale=1.0">
         <title>Website</title>
       </head>
       <body>
       <?php
       $name = $email = $gender = $comment = $website = "";
       if ($_SERVER["REQUEST_METHOD"] == "POST") {
         $name = test input($ POST["name"]);
         $email = test input($ POST["email"]);
         $website = test_input($_POST["website"]);
         $comment = test input($ POST["comment"]);
         $gender = test_input($_POST["gender"]);
       }
       function test input($data) {
```

```
$data = trim($data);
  $data = stripslashes($data);
  $data = htmlspecialchars($data);
  return $data;
}
?>
<h2>PHP Form Validation Example</h2>
<form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
  Name: <input type="text" name="name">
  <br><</pre>
  E-mail: <input type="text" name="email">
  <br><br><br><
  Website: <input type="text" name="website">
  <br><br><br><
  Comment: <textarea name="comment" rows="5"</pre>
cols="40"></textarea>
  Gender:
  <input type="radio" name="gender"</pre>
value="female">Female
  <input type="radio" name="gender" value="male">Male
  <input type="radio" name="gender"</pre>
value="other">Other
  <br><br><br><
  <input type="submit" name="submit" value="Submit">
</form>
<?php
echo "<h2>Check Your Entry:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $website;
echo "<br>";
echo $comment;
echo "<br>";
echo $gender;
```

< > C 88 VPN (2) file:///E:/6.html	
PHP Form Validation Example	
'> Name:	
E-mail:	
Website:	
Comment:	
Gender: ○Female ○Male ○Other	
Submit	

7-UNDERSTANDING JAVASCRIPT

PROCEDURE

JAVASCRIPT was originally created to "make web pages alive". For understanding javascript, I have created a program that will give you yhe feeling that the page is alive.

I call it as reaction timer. The program is designed in such a way that some squares and circles will appear on the screen randomly in random colours and random sizes and you have to click on the figures ASAP.

It will then tell you the time which you took to click on the image.

There is the use of Math.random() function for generating random colours and random sizes and shapes and to record the time I have used the setTimeout() function.

This program is a very good example for understanding javascript, its various attributes, tags such as document.getElementById() etc.

```
<html>
<head>
<title>Reaction Timer</title>
<style type="text/css">
body {
font-family: sans-serif;
}
#shape {
width: 200px;
height: 200px;
background-color: red;
display: none;
position: relative;
```

```
}
.bold {
font-weight: bold;
}
</style>
</head>
<body>
<h1>Test Your Reactions!</h1>
Click on the boxes and circles as quickly as you can!
Your time: <span</pre>
id="timeTaken"></span>
<div id="shape"></div>
<script type="text/javascript">
var start = new Date().getTime();
function getRandomColor() {
var letters = '0123456789ABCDEF'.split('');
var color = '#';
for (var i = 0; i < 6; i++) {
color += letters[Math.floor(Math.random() * 16)];
}
return color;
```

```
}
function makeShapeAppear() {
var top = Math.random() * 400;
var left = Math.random() * 400;
var width = (Math.random() * 200) + 100;
if (Math.random() > 0.5) {
document.getElementById("shape").style.borderRadius = "50%";
} else {
document.getElementById("shape").style.borderRadius = "0";
}
document.getElementById("shape").style.backgroundColor =
getRandomColor();
document.getElementById("shape").style.width = width + "px";
document.getElementById("shape").style.height = width + "px";
document.getElementById("shape").style.top = top + "px";
```

```
document.getElementById("shape").style.left = left + "px";
document.getElementById("shape").style.display = "block";
start = new Date().getTime();
}
function appearAfterDelay() {
setTimeout(makeShapeAppear, Math.random() * 2000);
}
appearAfterDelay();
document.getElementById("shape").onclick = function() {
document.getElementById("shape").style.display = "none";
var end = new Date().getTime();
var timeTaken = (end - start) / 1000;
document.getElementById("timeTaken").innerHTML = timeTaken +
"s";
appearAfterDelay();
```

```
}
</script>
</body>
</html>
```



Test Your Reactions!

Click on the boxes and circles as quickly as you can!

Your time: 1.146s



8-CREATING A WEB PAGE WITH BACK-END IN PHP AND FRONT-END IN JAVASCRIPT AND HOSTING IT ON APACHE TOMCAT SERVER

PROCEDURE

In this program I have created a HTML form to take input from the user and with the help of XAMPP software I connected my php script to the MySQL database.

Further, I have used CSS in <style> tag to give the webpage an attractive look.

Many HTML tags are used in this programs such as , <div>, <form> etc.

When the user clicks the submit button I have used the <onclick> tag which activates the javascript function which contains the php script.

I have used the POST method in the form.

I created a new database in the MySQL and a new table for storing the data entered by the user.

I have used \$query and \$link functions for inserting the data of user in the MySQL table on the server.

In this way I have created a web page which uses HTML, CSS and Javascript in front end and uses PHP for back end scripting.

```
margin-left: 30%;
    margin-right: 30%;
    margin-top: 25px;
    background-color: aqua;
    padding-right: 50px;
    border-radius: 20px;
    padding: 10px 0px 10px 0px;
}
.p1{
    text-decoration-style: wavy;
    font-family: cursive;
    color:purple;
    margin-left: 20px;
    font-weight: bold;
}
.input{
    margin-left: 25px;
```

```
border-radius: 10px;
    width: 80%;
    height: 40px;
    background-color: greenyellow;
}
.button{
    border-radius: 7px;
    background-color:chartreuse;
    margin-left: 20%;
    width:90px;
    height: 50px;
}
.button:hover{
    color:aliceblue;
    background-color: darkgreen;
}
body{
    background-color: blueviolet;
```

```
}
ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    overflow: hidden;
    background-color: #333;
    }
    li {
    float: left;
    }
    li a {
    display: block;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
    }
    li a:hover:not(.active) {
    background-color: #111;
    }
```

```
.active {
               background-color: #4CAF50;
               }
       </style>
    </head>
    <body>
        <h1 style="text-align: center;color:</pre>
white; font-style: italic; font-weight: bolder; ">Fill the
form</h1>
        <l
           <a class="active"</li>
href="http://iiitsonepat.ac.in/">Home</a>
           <a
href="http://iiitsonepat.ac.in/admissions/overview">Adm
issions</a>
           <a
href="http://iiitsonepat.ac.in/placements">Placements/
a>
```

```
<a
href="http://iiitsonepat.ac.in/contact-
us">Contact</a>
       <div id="form">
       <form action="/tushar/FORM NEW.php"</pre>
method="post">
         Name: <br> <input name="name"</pre>
id="name" class="input" type="text" placeholder="Enter
Your Name" >
         Roll number: <br> <input</pre>
name="roll" id="roll" class="input" type="text"
placeholder="Roll Number">
         Branch: <br> <input</pre>
name="branch" id="branch" class="input" type="text"
placeholder="Enter Your Branch">
         Email:<br> <input name="email"</pre>
id="email" class="input" type="email"
placeholder="example@mail.com">
        <P class="p1"> Nationality:<br>
```

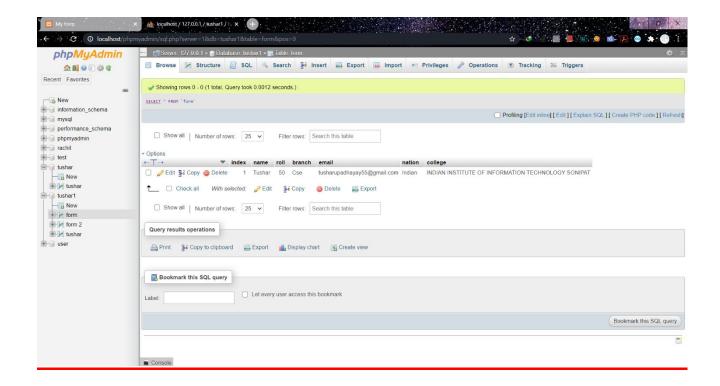
```
<input name="nation" id="nation"</pre>
class="input" type="text" placeholder="Your
Nationality" >
         </P>
         Current Institute:<br>< <input</pre>
name="college" id="college" class="input" type="text"
placeholder="Name of Institution"><br>
         <input class="button" type="submit"
onclick="register()"> <input class="button"</pre>
type="reset">
        </form>
        </div>
                <script>
                    function register(){
                        <?php
$link=mysqli_connect("localhost","root","","tushar1");
    if(mysqli_connect_error()){
        die("there was an error.");
```

```
}
    $name=$ POST['name'];
  $roll=$ POST['roll'];
  $email=$ POST['email'];
  $branch=$_POST['branch'];
  $college=$ POST['college'];
  $nation=$ POST['nation'];
    $query="INSERT INTO
`form`(`name`,`roll`,`branch`,`email`,`nation`,`college
VALUES('$name','$roll','$branch','$email','$nation','$c
ollege')";
    mysqli_query($link,$query);
    $query="SELECT * FROM form";
    if($result=mysqli query($link,$query)){
        $row=mysqli fetch array($result);
        echo "NAME=".$row[1];
        echo " ROLL=".\$row[2];
        echo "BRANCH=".$row[3];
        echo " EMAIL=".$row[4];
```

```
echo " NATION=".$row[5];
echo " COLLEGE=".$row[6];

}
?>
}
</script>
</body>
</html>
```





9-WRITING AND UNDERSTANDING PROGRAMS IN PYTHON

(i) PYTHON PROGRAM TO ADD TO NUMBERS

```
Num1= 1.5
Num2= 6.3
Sum= num1 +num2
Print(' sum of {0} and {1} is
{2}'.format(num1,num2,sum))
```

```
Shell
The sum of 1.5 and 6.3 is 7.8
>>>
```

(ii) PYTHON PROGRAM TO CHECK NUMBER IS ODD OR EVEN

```
Num = int(input("enter a number:"))
If( num%2==0:
    Print ("{0} is even".format(num))
Else:
    Print("{0} is odd".format(num))
```

```
Shell
Enter a number: 5
5 is Odd
>>> |
```

(iii) PYTHON PROGRAM TO CHECK WHETHER A STRING IS PALINDROME OR NOT

```
Shell
The string is a palindrome.
>>>
```

10-USE PYTHON LIBRARIES LIKE MATH'S STATISTICS TO CREATE PROGRAMS FOR SCIENTIFIC COMPUTATIONS

(i) USE PYTHON TO CREATE PROGRAMS FOR SCIENTIFIC COMPUTATIONS:

```
import math
print ("Log value for base 2: ")
print (math.log2(20))
```



(ii)USING PYTHON TO CALCULATE SCIENTIFIC COMPUTATIONS:

import math

```
print("What Do You Want To Calculate?")
    print("A - Sine")
    print("B - Cosine")
    print("C - Tangent")
    t = input()
    print("Enter Angle In Degrees: ")
    ang = float(input())
    pi = math.acos(-1)
    if t == "A" or t == "a":
        print("sin(" + str(ang) + ") = " +
    str(math.sin(ang*pi/180)))
    elif t == "B" or t == "b":
        print("cos(" + str(ang) + ") = " +
    str(math.cos(ang*pi/180)))
    elif t == "C" or t == "c":
    print("tan(" + str(ang) + ") = " +
str(math.tan(ang*pi/180)))
```

```
What Do You Want To Calculate?

A - Sine
B - Cosine
C - Tangent
A
Enter Angle In Degrees:
90
sin(90.0) = 1.0
>>> |
```