## INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT



# APPLICATION PROGRAMMING LAB FILE

BY- Aman Gupta

**BRANCH -CSE** 

ROLL NO - 11911023

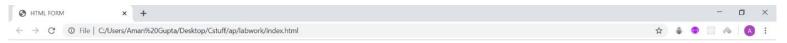
Creating a HTML Web page form

## **PROCEDURE**

- > Create a HTML file.
- Use form element for creating a form.
- Under form element create various input elements.
- Create a submit button for submitting the form.

#### CODE

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>HTML FORM</title>
</head>
<body>
 <h1>Plz Submit the form!</h1>
 <div class="formcontainer">
  <form>
    <label>Name:</label><br>
    <input type="text" placeholder="Enter Your Name"><br><br>
    <label>Email:</label><br>
    <input type="email" placeholder="Enter Your Email"><br><br>
    <label>Contact No.</label><br/>br>
    <input type="Contact" placeholder="Enter Your No."><br><br>
    <label>Password:</label><br>
    <input type="password" placeholder="Enter Your Password"><br><br>
    <button name="button">Submit</button>
  </form> </div>
</body>
</html>
```



#### Plz Submit the form!





Creating Web Page using Html

#### **PROCEDURE**

- ➤ We will create a Bio Page using only HTML
- Create a HTML file.
- > Add about yourself using various html tags

#### **CODE**

```
<!DOCTYPE html>
<html> <head>
<title>My Bio  </title>
</head>
<body>
<img src="mypic.jpeg" style="border-radius: 100%" height="200" width="200" alt="Profile Pic">
<h1>Aman Gupta</h1>
<em>An ethusiastic <strong> Web Developer <a href="mailto:cem>">c/strong></em>
<hr><br>
<h3>Skills</h3>
Hardcore Coder
Web Designer & Developer
Android Developer
<h3>My Hobbies</h3>
Swimming
Cyber Gaming
Table Tennis
</body>
</html>
```



## Aman Gupta

An ethusiastic Web Developer 🤓

#### Skills

- Hardcore Coder
   Web Designer & Developer
   Android Developer

#### My Hobbies

- SwimmingCyber GamingTable Tennis



Creating Web Page using XHtml and CSS

#### **PROCEDURE**

- We will create a Portfolio Page using XHTML and CSS
- Create a HTML file.
- > Add details about yourself.
- > Provide a class to every element you want to style.
- Create a CSS file and link it to your XHTML file using Link element.
- In the CSS file add styles to various classes id and XHTML tags.

#### CODE

#### XHTML File

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
 <title>I am Aman</title>
href="https://fonts.googleapis.com/css2?family=McLaren&family=Montserrat&family=Sacramento&dis
play=swap" rel="stylesheet">
 <link rel="stylesheet" href="stylesheet.css">
</head>
<body>
 <div class="con2">
  <img class="pic" src="mypic.jpeg" alt="profile-pic">
  <div>
   <h3 class="hello">Hello! I am Aman</h3>
   I am a web designer / developer from Gurugram,India.I ❤ to design sites
with creative & wonderful deisgns.
```

```
</div>
  <hr />
  <div class="skill">
   <h3>My Skills</h3>
   <div class="skill-row">
    <img class="lang" src="langu.jpg" alt="languagepic">
    <h4>Frontend-Designing</h4>
    I have a good knowledge of most of the front-end technologies and specialization in creating
beautiful responsive designs.
   </div>
   <div class="skill-row">
    <img class="code" src="code.jpg" alt="codingpic">
    <h4>Back-end Development</h4>
    I can help you develop anything you need with the latest technologies available.
   </div>
  </div>
  <hr />
  <div class="cont">
   <h3>I Can Help.</h3>
   If you wish to start any project then I can be the perfect partner and help you
with best of my knowledge. So get in touch with me by just saying hello.
   <a href="mailto:guptaaman200115@gmail.com" class="myButton">&#9993; Message Me</a>
  </div>
 </div>
 <div class="con3">
   <span class="copy">&copy;Aman Gupta</span>
 </div>
</body>
</html>
```

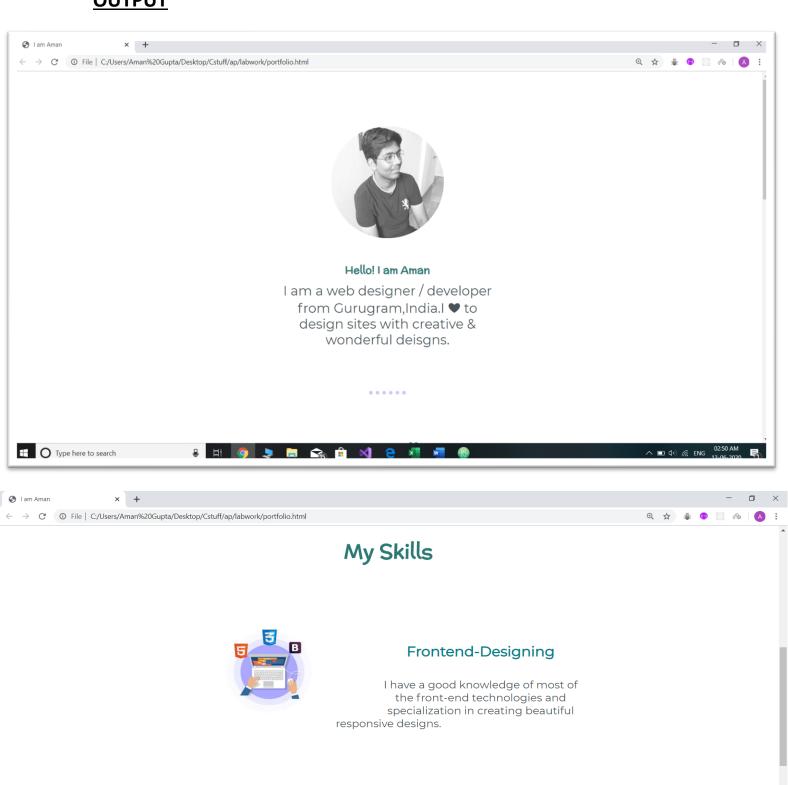
#### **CSS File**

```
body{
 font-family: 'Montserrat', sans-serif;
margin: 0;
text-align: center;
color:#434e52;
}
h3{
 display: inline-block;
 color: #2c7873;
 margin: auto;
 width: 30%;
 font-family: 'McLaren', cursive;
font-size: 2.3rem;
}
.hello{
 margin: 40px auto 10px auto;
 font-size: 1.2rem;
}
hr{
 margin: 80px auto;
 border-style: dotted;
 border-bottom: none;
 border-width: 0.4rem;
 width: 4%;
 color: #c6cbef;
}
.pic{
 margin: auto;
 height: 15%;
 width: 15%;
 border-radius: 100%;
 opacity: 0.8;
```

```
}
.con2{
 padding-top: 100px;
}
.disc{
 font-size: 1.5em;
 margin: auto;
 width: 30%;
}
.lang{
 border-radius: 100%;
 margin-right: 50px;
 float: left;
 height: 40%;
 width: 40%;
}
.lang:hover{
 height: 50%;
 width:50%;
}
.skill-row{
 padding: 10px;
 width: 50%;
 margin: 100px auto 100px auto;
 text-align: center;
}
h4{
 font-size: 1.6rem;
 color: #00818a;
}
.code{
 border-radius: 100%;
 margin-left:50px;
 float: right;
```

```
height: 25%;
 width: 25%;
}
.code:hover{
 height: 30%;
 width:30%;
}
.web{
 border-radius: 100%;
 margin-right:50px;
 float: left;
 height: 25%;
 width: 25%;
}
.cont{
 margin: 0 auto 100px auto;
 display: inline-block;
 width: 50%;
}
.contact{
 margin: 50px auto;
 width: 78%;
}
p{
 font-size: 1.2rem;
}
.myButton {
box-shadow: 0px 0px 0px 2px #caefab;
background-color:#2c7873;
border-radius:14px;
border:1px solid #00818a;
display:inline-block;
cursor:pointer;
color:white;
```

```
font-size:1rem;
font-weight:bold;
padding:12px 24px;
 text-decoration: none;
}
.myButton:hover {
background-color:#00818a;
 color: black;
}
.con3{
 display: inline-block;
 width: 100%;
 padding-top:30px;
 margin-bottom: 0;
 background-color: #cddeee;
}
.copy{
 display: block;
 margin: auto;
 margin-top: 50px;
 margin-bottom: 30px;
 color: #00818a;
}
```

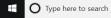


#### **Back-end Development**

I can help you develop anything you need with the latest technologies available.



















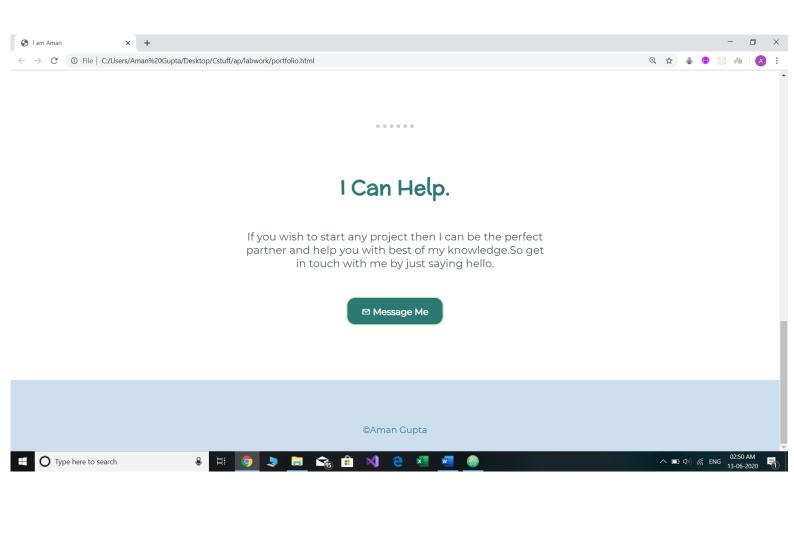












Setting Up And Configuration Of XAMPP Server

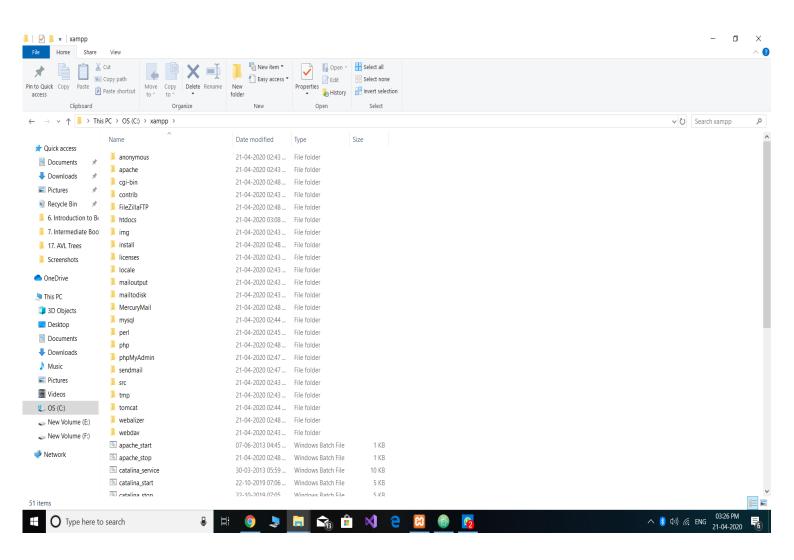
## **PROCEDURE**

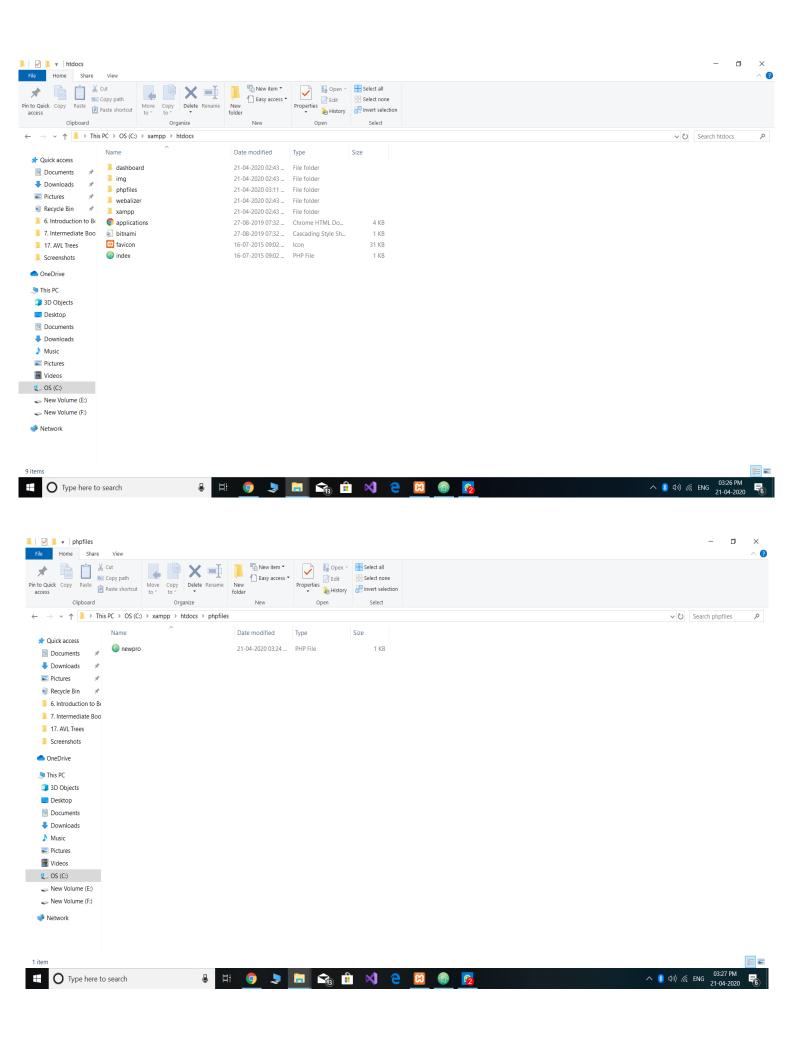
- > Download XAMPP from <a href="www.apachefriends.org">www.apachefriends.org</a> and install it.
- Now browse to the XAMPP folder in C drive and search for htdocs folder
- ➤ Under this folder create a PHP file for checking whether the server is working or not.
- > Open the XAMPP control panel and start the apache server and run the PHP file.

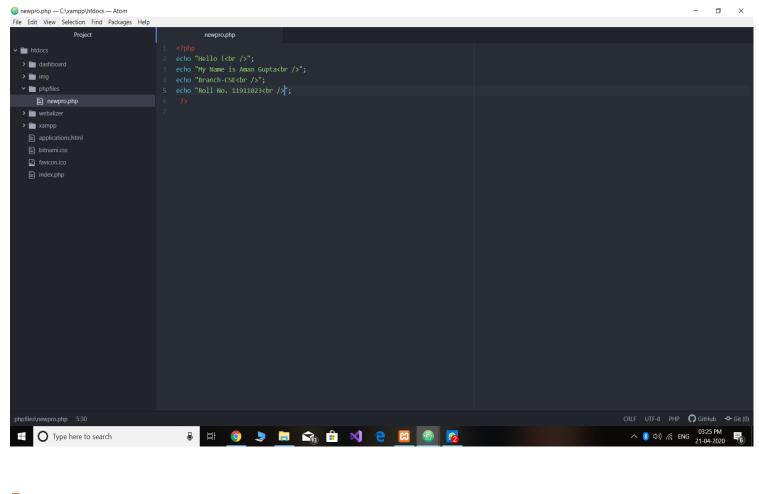
#### CODE

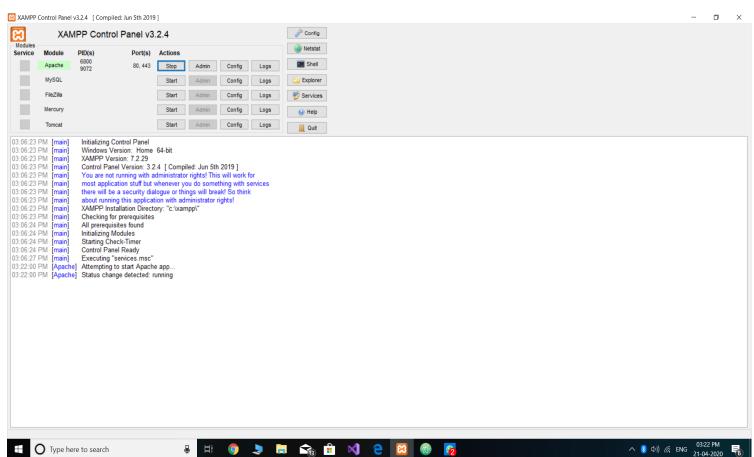
#### PHP File

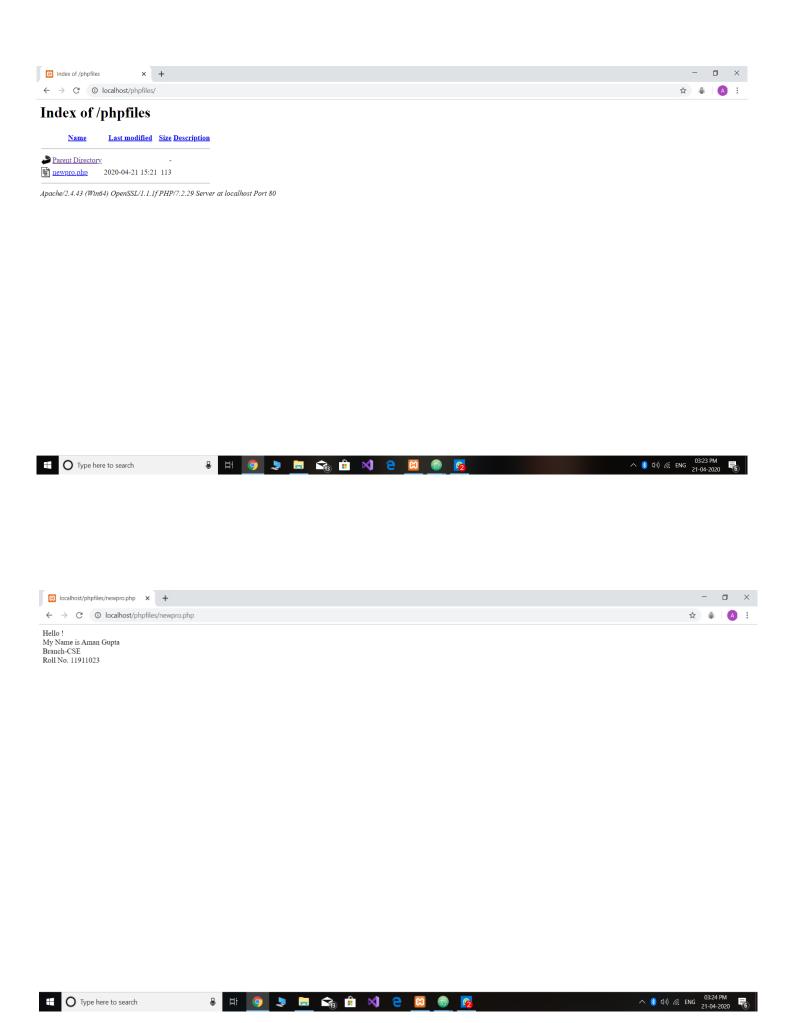
```
<?php
echo "Hello !<br />";
echo "My Name is Aman Gupta<br />";
echo "Branch-CSE<br />";
echo "Roll No. 11911023<br />";
?>
```











Using JavaScript and CSS to Design a Responsive Website

#### **PROCEDURE**

- We will create a virtual dice game using JS
- > The website will show the result of rolling two dices.
- > The generation of random dice no. is handled by JS.

#### **CODE**

#### **HTML FILE**

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>Dicee</title>
  <link rel="stylesheet" href="styles.css">
href="https://fonts.googleapis.com/css2?family=Gochi+Hand&family=Permanent+Marker&display=sw
ap" rel="stylesheet">
 </head>
 <body>
  <div class="container">
   <h1>START</h1>
   <div class="dice">
    Player 1
    <img class="img1" src="images/dice6.png">
   </div>
```

```
<div class="dice">
    Player 2
    <img class="img2" src="images/dice6.png">
   </div>
  </div>
  <div class="refresh">
   <button class="btn"type="button" onclick="winnerplayer()" name="button">Refresh</button>
  </div>
 <script src="index.js" charset="utf-8"></script>
 </body>
</html>
CSS File
.container {
 width: 70%;
 margin: auto;
 text-align: center;
}
.dice {
 text-align: center;
 display: inline-block;
}
body {
 background: rgb(34,193,195);
background: linear-gradient(281deg, rgba(34,193,195,1) 0%, rgba(253,187,45,0.9615196420365021)
100%);
}
h1 {
```

margin: 30px;

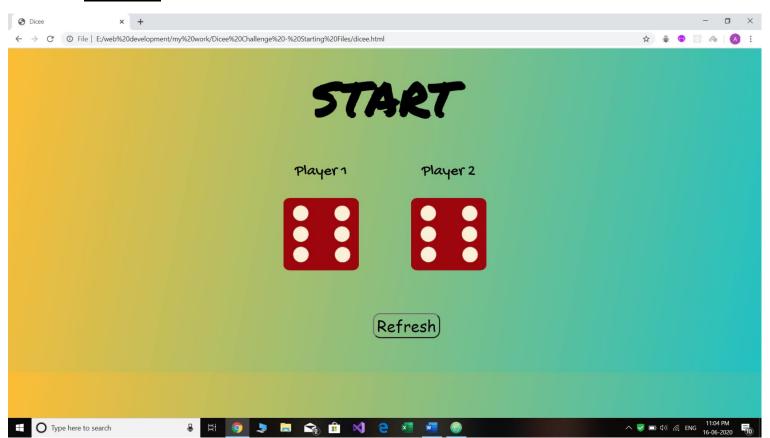
font-family: 'Permanent Marker', cursive;

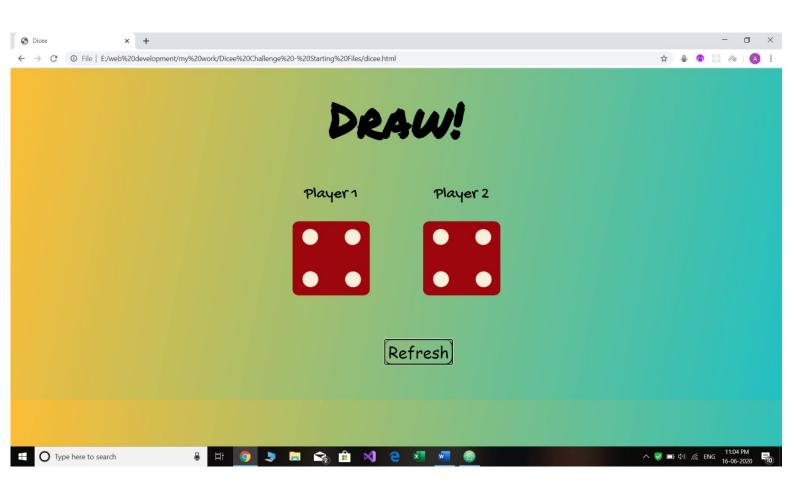
```
font-size: 6rem;
 color: #000000;
}
p {
 font-family: 'Gochi Hand', cursive;
 font-size: 2rem;
 color: #000000;
}
img {
 width: 60%;
}
.refresh{
 padding: 5rem;
 margin: auto;
 height: 2rem;
 width: 3rem;
}
button{
  color: #000000;
font-family: cursive;
font-size: 2rem;
background-color: transparent;
border-radius: 15px;
border-style: solid black 0.1px;
}
.btn:hover{
 cursor: pointer;
}
```

## JavaScript File

```
function winnerplayer(){
var rand1=Math.floor(Math.random()*6)+1;
var rand2=Math.floor(Math.random()*6)+1;
```

```
if(rand1>rand2)
{
    document.querySelector("h1").innerHTML=" Player1 Wins!";
}
else{
    if(rand2>rand1)
        document.querySelector("h1").innerHTML="Player2 Wins! "";
    else
        document.querySelector("h1").innerHTML="Draw!";
}
document.querySelector(".img1").setAttribute("src","images/dice"+rand1+".png");
document.querySelector(".img2").setAttribute("src","images/dice"+rand2+".png");
}
```





Creating Website Using PHP

#### **PROCEDURE**

- ➤ We will create a Registration Website using PHP.
- > Create a Html file containing a form.
- > The details entered by user will be handled by PHP.

#### **CODE**

#### **HTML FILE**

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>Registration</title>
 <link rel="stylesheet" href="style.css">
</head>
<body>
 <h1>Register For Free And Enjoy Our Services!</h1>
 <div class="formcontainer">
  <form action="register.php" method="post">
   <div class="data">
    <label>Name:</label>
    <input type="text" class="ab" name="name" value="" placeholder="Enter Your Name" required>
   </div>
   <div class="data">
    <label>Email:</label>
    <input type="email" class="ab" name="email" value="" placeholder="Enter Your Email"required>
   </div>
```

```
<div class="data">
    <label>Contact No.</label>
    <input type="Contact" class="ab" name="contact" value="" placeholder="Enter Your
No."required>
   </div>
   <div class="data">
    <label>Password:</label>
    <input type="password"class="ab" name="" value="" placeholder="Enter Your
Password"required>
   </div>
   <div class="data">
    <label>Gender:</label>
    <div class="cd">
      <input type="radio" id="male" name="gender" value="male">
      <label for="male">Male</label>
      <input type="radio" id="female" name="gender" value="female">
      <label for="female">Female</label>
      <input type="radio" id="other" name="gender" value="other">
      <label for="other">Other</label>
    </div>
   </div>
   <div class="data">
    <a href="label"><label</a>>How you came yo know about our services ?</label>
    <div class="cd">
      <input type="checkbox" name="" value="">
      <label>Newspaper</label>
      <input type="checkbox" name="" value="">
      <label>Social Media</label>
      <input type="checkbox" name="" value="">
      <label>Television</label>
      <input type="checkbox" name="" value="">
      <label>Other</label </div>
    </div>
<button class="btn" type="submit" name="button">Register</button>
  </form>
```

```
</div>
</body>
</html>
```

## **PHP FILE**

```
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>Welcome</title>
  <link rel="stylesheet" href="style.css">
 </head>
 <body>
<h1>Congratulations! You have Successfully Registered.</h1>
 Welcome <?php echo $_POST["name"]; ?>
  <br>
Your email address is: <?php echo $_POST["email"]; ?>
<br>
Your contact no. is: <?php echo $_POST["contact"]; ?>
<br>
</html>
```

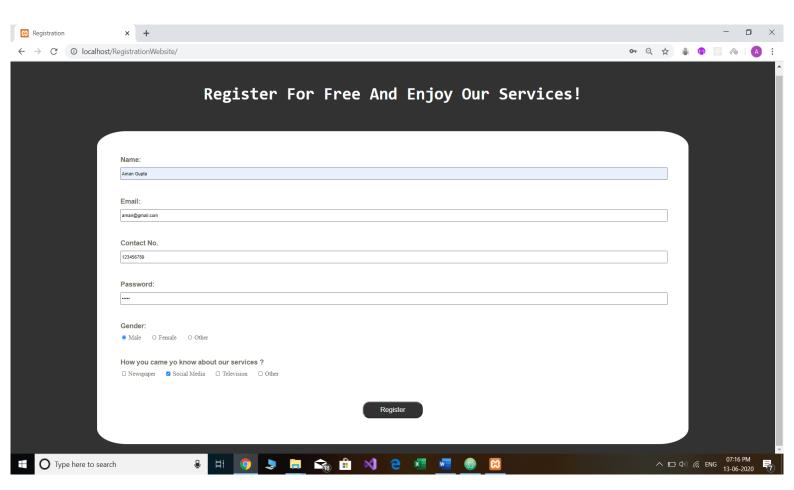
## **CSS File**

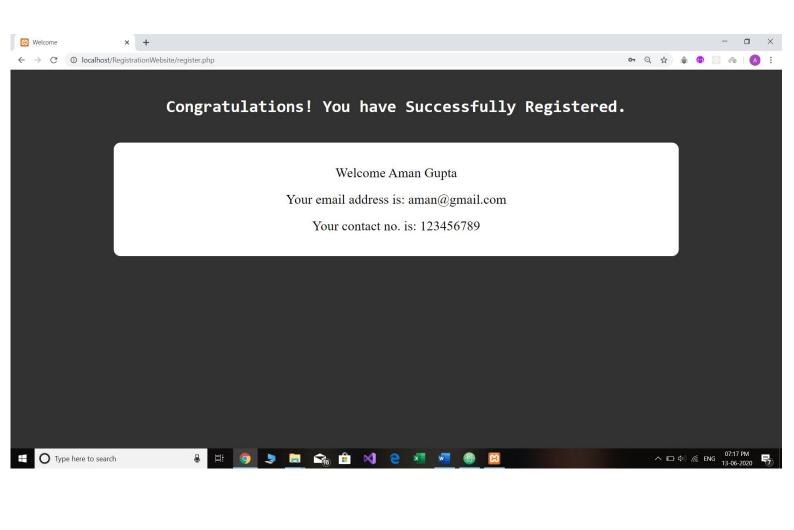
```
body{
  background-color: #323232;
}
h1{
  font-family: monospace;
  font-size: 50px;
  margin: 80px;
  color: white;
```

```
text-align: center;
}
.formcontainer{
 background-color: white;
 padding: 50px;
 margin: 30px 250px;
 border-radius: 5%;
}
label{
 font-family:sans-serif;
 color:#706c61;
 font-weight: bold;
 font-size: 20px;
}
.ab:hover{
 background-color: #ebebe3;
}
.data{
 padding: 20px;
}
.ab{
 display: block;
 width: 100%;
 margin:10px 0;
 height: 30px;
}
.cd label{
 margin-right:25px;
 font-size: 18px;
 font-weight: normal;
 font-family: serif;
}
.cd{
 margin: 10px 0;
```

```
}
.btn{
font-size: 20px;
display: block;
margin: 5px auto;
margin-top: 70px;
text-align: center;
color: white;
cursor: pointer;
background-color: #323232;
padding: 10px 50px;
border-radius:20px;
```

}





**Understanding JavaScript** 

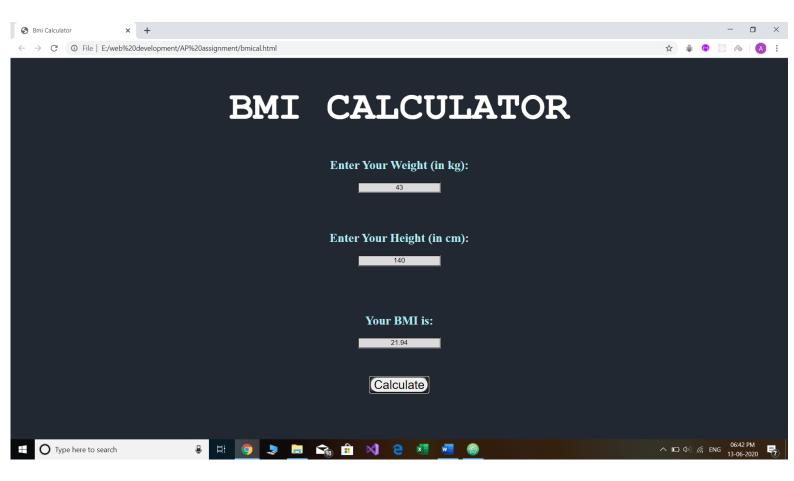
#### **PROCEDURE**

- ➤ We will create a calculator using JavaScript
- ➤ The JS will handle calculation and rest of the styling will be done using html and CSS.

## **CODE**

```
<!DOCTYPE html>
<html>
<head>
        <title>Bmi Calculator</title>
</head>
<style type="text/css">
       body{
                background-color: #222831;
                background-repeat: no-repeat;
                background-size: cover;
       }
       h1{
                text-align: center;
                font-family:courier;
                color: white;
                font-size: 5rem;
       }
       h2{
                color: #b2ebf2;
       }
       button{
                border-radius: 24px;
                font-size: 24px;
```

```
}
       input{
               background-color: #dbdbdb;
               text-align: center;
       }
</style>
<script type="text/javascript">
       function Bmi()
       {
               var h=document.getElementById("height").value;
               var w=document.getElementById("weight").value;
               var result=(w*100*100/(h*h));
               var r=result.toFixed(2);
               document.getElementById("res").value=r;
       }
</script>
<body>
<h1><b>BMI CALCULATOR</b></h1>
        <center><h2>Enter Your Weight (in kg):</h2><input type="text" id="weight"></center>
        <br><br><br><br>
        <center><h2>Enter Your Height (in cm):</h2><input type="text" id="height"></center>
        <br><br><br><br><br>
        <center><h2>Your BMI is: </h2><input type="text" id="res"></center>
        <br><br><br><br>
        <center><button onclick="Bmi()">Calculate</button></center>
</body>
</html>
```



Creating a Web Page with Back end in PHP and front end in JavaScript and hosting it on Apache Tomcat Server

#### **PROCEDURE**

- ➤ We will create a fortune teller webpage that takes your details and tell your Fortune.
- > The registration part will be handled by PHP.
- > JavaScript will handle the fortune telling part.

#### **CODE**

#### **HTML FILE**

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>Fortune</title>
link rel="stylesheet" href="styles.css">
</head>
<body>
<h1>I Know Your Future!</h1>
<div class="formcontainer">
<form action="fortune.php" method="post">
<div class="data">
<label>Name:</label>
```

#### PHP FILE

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>Welcome</title>
  <link rel="stylesheet" href="styles.css">
 </head>
 <body onload="fortuneteller()">
  <h1>Welcome <?php echo $_POST["name"]; ?></h1>
  <script type="text/javascript">
function fortuneteller(){
var x = Math.floor(Math.random() * 100);
if (x <= 30){
document.getElementById("fortune").innerHTML = "Your Day will be tough. Be ready to face
challanges.";
}
else {
 if(x \le 60)
```

```
document.getElementById("fortune").innerHTML = "Your Day will be fine and peacefull.";
else
document.getElementById("fortune").innerHTML = "Your Day will be superb and filled with surprises.";
}

</p
```

## **CSS FILE**

```
body{
 background-color: #204051;
}
h1{
 font-family: monospace;
 font-size: 50px;
 margin: 80px;
 color: white;
 text-align: center;
.formcontainer{
 display: block;
 background-color: white;
 width: 30%;
 padding: 5rem;
 margin: auto;
 border-radius: 5%;
}
label{
 font-family:sans-serif;
 color:#706c61;
```

```
font-weight: bold;
 font-size: 20px;
}
.ab:hover{
 background-color: #ebebe3;
}
.data{
 padding: 20px;
.ab{
 display: block;
 width: 100%;
 margin:10px 0;
 height: 30px;
}
.btn{
 font-size: 20px;
 display: block;
 margin: 5px auto;
 margin-top: 70px;
 text-align: center;
 color: white;
 cursor: pointer;
 background-color: #204051;
 padding: 10px 50px;
 border-radius:20px;
}
#fortune{
 font-size: 7rem;
 text-align: center;
 background-color: white;
 display: block;
 margin: auto;
```

```
margin-top: 10rem;
width: 50%;
padding: 5rem;
border-radius: 15px;
}
```

