

List of Experiments

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7. Creating a Web Page with back end in PHP and Front end in JavaScript and hosting it on Apache Tomcat Server .
8. Writing and Understanding Program in Python
9. Use python Libraries like Math's statistics to create program for Scientific Computations

EXP-1 Creating an HTML Web page forms

HTML

```
index.html

1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3  <head>
4      <meta charset="utf-8">
5      <title></title>
6      <link rel="stylesheet" href="style.css">
7
8
9
10     </head>
11    <body>
12    <div class="login-box">
13        <h1>Login</h1>
14    <div class="textbox">
15        <form>
16            <label for="fname">First Name: </label>
17            <input type="text" id="fname" name="fname" class="form1"><br><br>
18
19            <label for="lname">Last Name: </label>
20            <input type="text" id="lname" name="lname" class="form1"><br><br>
21
22            <label for="username">UserName: </label>
23            <input type="text" id="username" name="username" class="form1"><br><br>
24
25            <label for="email">Email: </label>
26            <input type="text" id="email" name="email" class="form1"><br><br>
27
28
29            <label for="qual">University Name: </label>
30            <input type="text" height="100px" id="university" name="university" class="form1"><br><br>
31
32        </div>
33
34    <div class="textbox">
35
36        <label for="pass">Password: </label>
37        <input type="password" name="pass" id="pass" placeholder="Password">
38    </div>
39
```

```
40      <input type="button" class="btn" value="Login">
41      <input type="button" class="btn" value="Create account" onclick="hello()">
42
43  </form>
44
45  </div>
46  <p id="notice"></p>
47
48
49  </body>
50  <script src="script.js"></script>
51
52
53
54  </html>
55
```

Line 1, Column 1 — 55 Lines

OUTPUT

The screenshot shows a web browser window with the title bar "index.html". The address bar displays the URL "E:/Btech%20IT/Assignment%20AP/Lab1/LAB1.HTML%20Forms/index.html". The main content area is titled "Login". It contains the following fields:

- First Name: [input field]
- Last Name: [input field]
- UserName: [input field]
- Email: [input field]
- University Name: [input field]
- Password: [input field]
- [Login] button
- [Create account] button

EXP-2 Creating Home page Using HTML

HTML

```
E:/Btech IT/Assignment AP/Lab1/LAB/2.HTML Home Page/index.html (tes
igate Debug Help

E:/Btech IT/Assignment AP/Lab1/LAB/2.HTML Home Page/index.html

1  <!DOCTYPE html>
2 ▼ <html>
3 ▼ <head>
4  <title>First</title>
5  </head>
6
7 ▼ <frameset rows = "25%,60%,15%">
8      <frame name = "top" src = "frame1.html"/>
9 ▼      <frameset cols = "15%,70%,15%">
10         <frame name = "left" src = "left.html"/>
11         <frame name = "center" src = "center.html"/>
12         <frame name = "right" src = "right.html"/>
13     </frameset>
14
15     <frame name = "bottom" src = "frame2.html"/>
16
17 ▼     <noframes>
18         <body>Your browser does not support frames</body>
19     </noframes>
20 </frameset>
21 </html>
22
```

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>First</title>
5  </head>
6  <div name="buttons">
7  <button>Home</button>
8  <button>Academics</button>
9  <button>Admission</button>
10 <button>Life@IIITS</button>
11 <button>Placements</button>
12 <button>Jobs</button>
13 <button>Results</button>
14 <button>Contact Us</button>
15 </div>
16 
17
18 </html>
19
```

frame1.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>First</title>
5  </head>
6  <html>|
7  <img src ="IIIT image.png" height="100%" width="100%"></img>
8
9 </html>
10
```

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>First</title>
5  </head>
6  <body bgcolor="pink">
7  <h2 align="center">Contact Details</h2>
8  <div align="center">
9    Gmail: dheerajrohilla2057@gmail.com <br>
10   Phone No: 8607414685
11 </div>
12 </body>
13 </frameset>
14 </html>
15
```

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>First</title>
5  </head>
6  <body bgcolor="pink">
7      <h2>Student Details</h2> <br>
8  <h3>Name: Dheeraj <br>
9  Roll No:11912020 <br>
10 Branch: IT </h3>
11
12 </body>
13 </html>
14
```

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>First</title>
5  </head>
6  <body bgcolor = "pink">
7      <h2>Assignment Details</h2>
8      <h3>Assignment 1</h3>
9      <h3>Submitted To:<br> Mr. Md. Arquam</h3>
10 </body>
11 </html>
```

OUTPUT

First X +

File | E/Btech%20IT/Assignment%20AP/Lab1/LAB/2.HTML%20Home%20Page/index.html

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT

भारतीय सूचना प्रौद्योगिकी संस्थान, सोनीपत
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY SONEPAT
नेतृत्व वालीतमस्तु

(An Institute of National Importance under an Act of Parliament)

Student Details

Name: Dheeraj
Roll No:11912020
Branch: IT

Assignment Details

Assignment 1
Submitted To:
Mr. Md. Arquam

Contact Details

Gmail: dheerajrohilla2057@gmail.com
Phone No: 8607414685

EXP-3 Creating XHTML and CSS and understanding its use in creating web pages

HTML

```
1  <!DOCTYPE html>
2 ▼ <html lang="en" dir="ltr">
3 ▼  <head>
4    <meta charset="utf-8">
5    <title></title>
6    <link rel="stylesheet" href="style.css">
7
8
9
10   </head>
11 ▼  <body>
12 ▼ <div class="login-box">
13   <h1>Login</h1>
14 ▼  <div class="textbox">
15 ▼    <form>
16      <label for="fname">First Name: </label>
17      <input type="text" id="fname" name="fname" class="form1"><br><br>
18
19      <label for="lname">Last Name: </label>
20      <input type="text" id="lname" name="lname" class="form1"><br><br>
21
22      <label for="username">UserName: </label>
23      <input type="text" id="username" name="username" class="form1"><br><br>
24
25      <label for="email">Email: </label>
26      <input type="text" id="email" name="email" class="form1"><br><br>
27
28
29      <label for="qual">University Name: </label>
30      <input type="text" height="100px" id="university" name="university" class="form1"><br><br>
31
32    </div>
33
34 ▼  <div class="textbox">
35
36    <label for="pass">Password: </label>
37    <input type="password" name="pass" id="pass" placeholder="Password">
38    </div>
39
```

```
39         <input type="button" class="btn" value="Login">
40         <input type="button" class="btn" value="Create account" onclick="hello()">
41     </form>
42   </div>
43   <p id="notice"></p>
44
45 </body>
46 <script src="script.js"></script>
47
48
49
50
51
52
53
54 </html>
55
```

Line 1, Column 1 — 55 Lines

CSS

```
1 ▼ body{
2   margin: 0;
3   padding: 0;
4   font-family: sans-serif;
5   background: url(bg.jpg) no-repeat;
6   background-size: cover;
7 }
8 ▼ .login-box{
9   width: 700px;
10  position: absolute;
11  top: 50%;
12  left: 50%;
13  transform: translate(-50%,-50%);
14  color: white;
15 }
16 ▼ .login-box h1{
17   float: left;
18   font-size: 40px;
19   border-bottom: 6px solid #4caf50;
20   margin-bottom: 50px;
21   padding: 13px 0;
22 }
23 ▼ .textbox{
24   width: 100%;
25   overflow: hidden;
26   font-size: 20px;
27   padding: 8px 0;
28   margin: 8px 0;
29   border-bottom: 1px solid #4caf50;
30 }
31 ▼ .textbox i{
32   width: 26px;
33   float: left;
34   text-align: center;
35 }
36 ▼ .textbox input{
37   border: none;
38   outline: none;
39   background: none;
40   color: white;
```

```
41   font-size: 18px;
42   width: 80%;
43   margin: 0 10px;
44 }
45 .btn{
46   width: 100%;
47   background: none;
48   border: 2px solid #4caf50;
49   color: white;
50   padding: 5px;
51   font-size: 18px;
52   cursor: pointer;
53   margin: 12px 0;
54 }
55 .form1{
56   border: 2px solid #4caf50;
57   color: white;
58 }
59
60
61
```

Line 1, Column 1 — 61 Lines

INS UT

OUTPUT

The screenshot displays a web browser window with the following details:

- Title Bar:** Shows the tab title "index.html" and standard window controls (minimize, maximize, close).
- Address Bar:** Displays the file path "E:/Btech%20IT/Assignment%20AP/Lab1/LAB/3.HTML%20AND%20CSS/index.html".
- Content Area:** A login form titled "Login".
- Background Image:** A scenic image of a large orange moon rising over snow-capped mountains.
- Form Fields:**
 - First Name:
 - Last Name:
 - UserName:
 - Email:
 - University Name:
 - Password: (labeled "Password")
- Buttons:**
 - Login
 - Create account

EXP-4

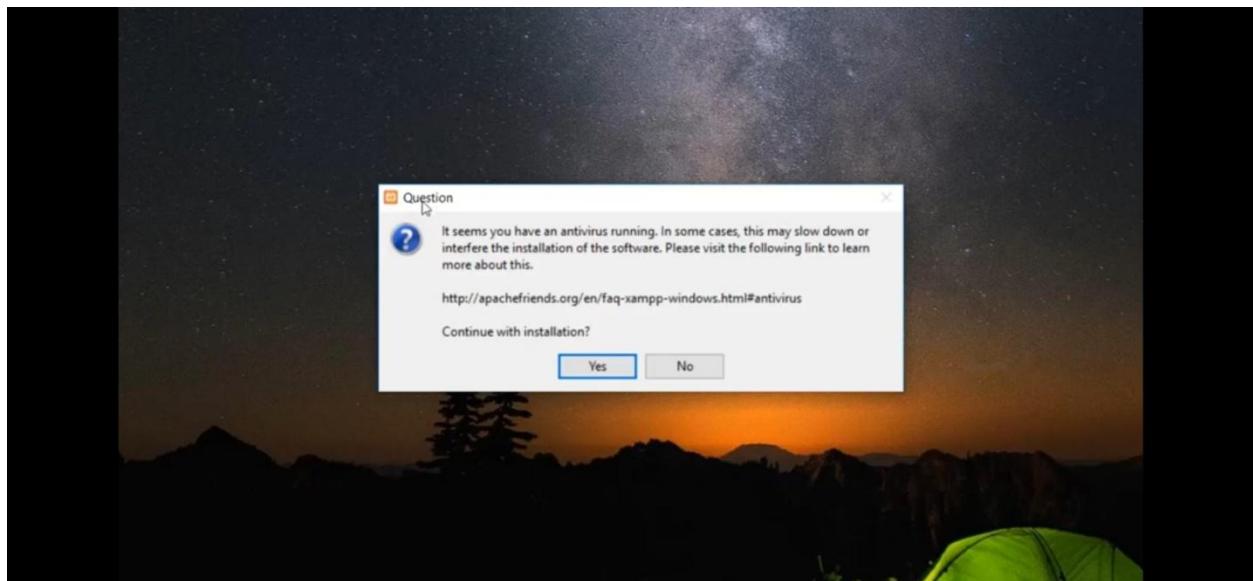
Name – Dheeraj

Roll No – 11912020

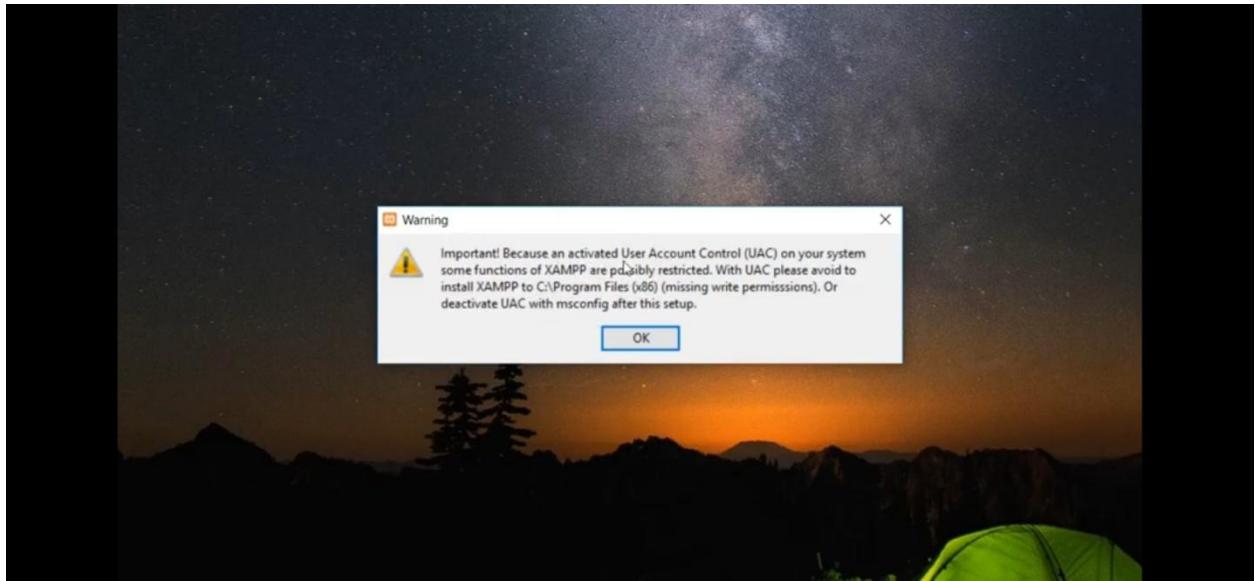
Branch - IT

Date – 21/4/2020

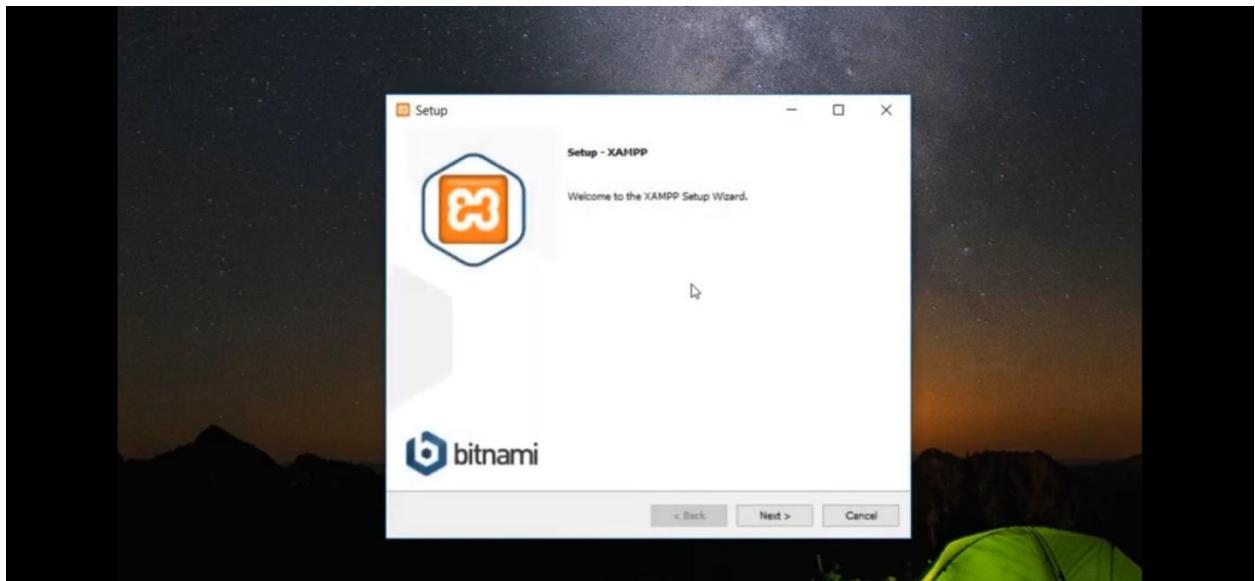
1. Open the exe File on Windows



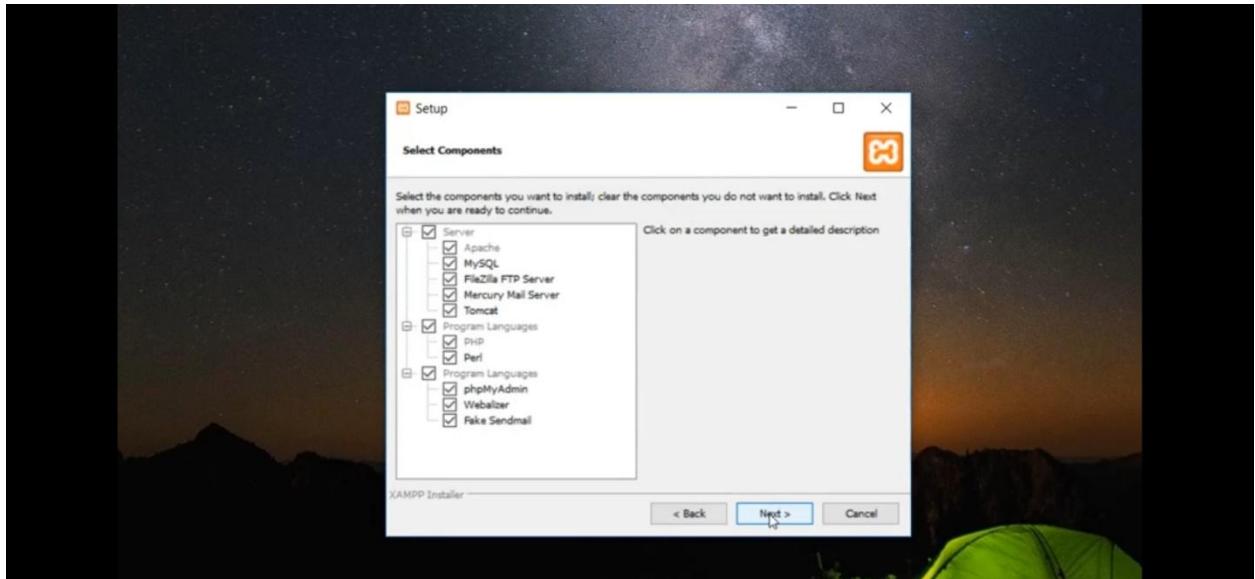
2. Click on yes



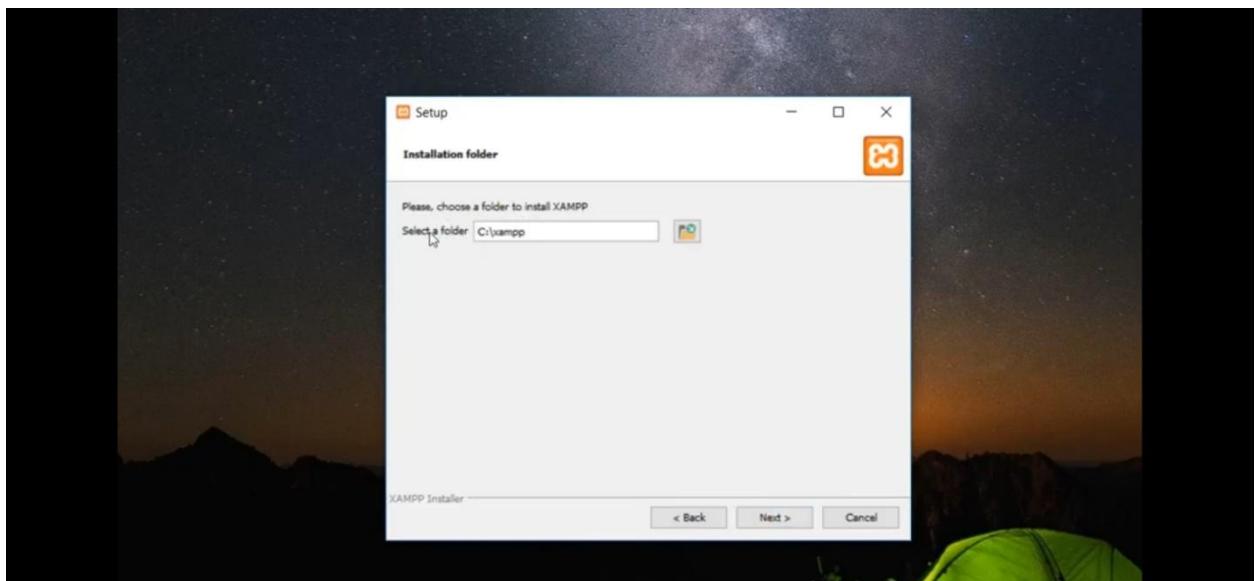
3.Click on Ok



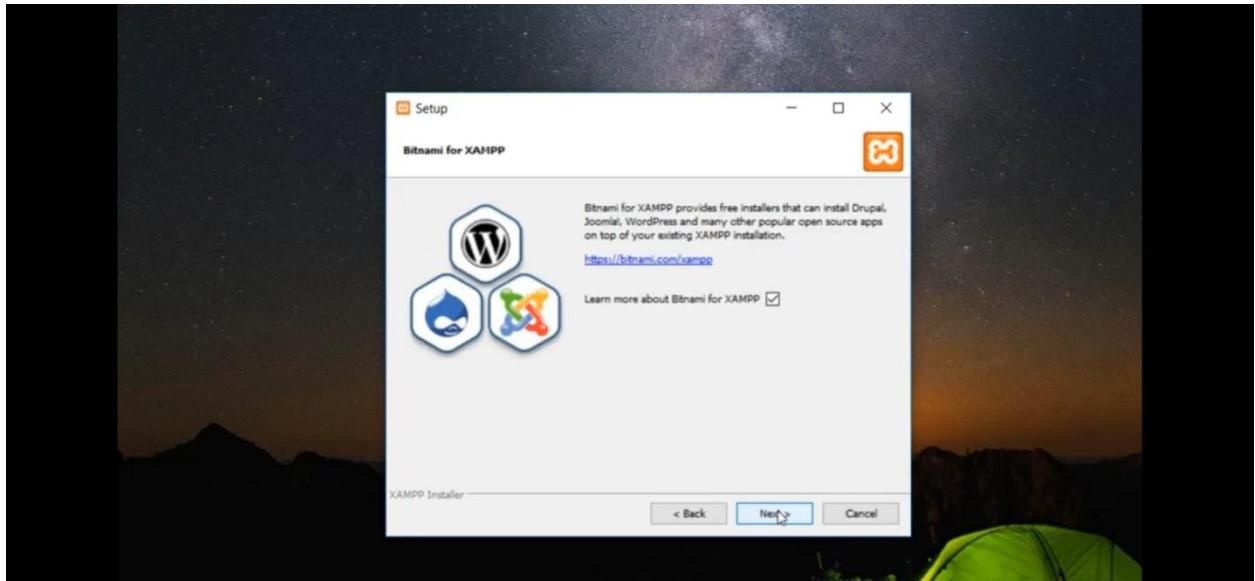
4.Click On Next



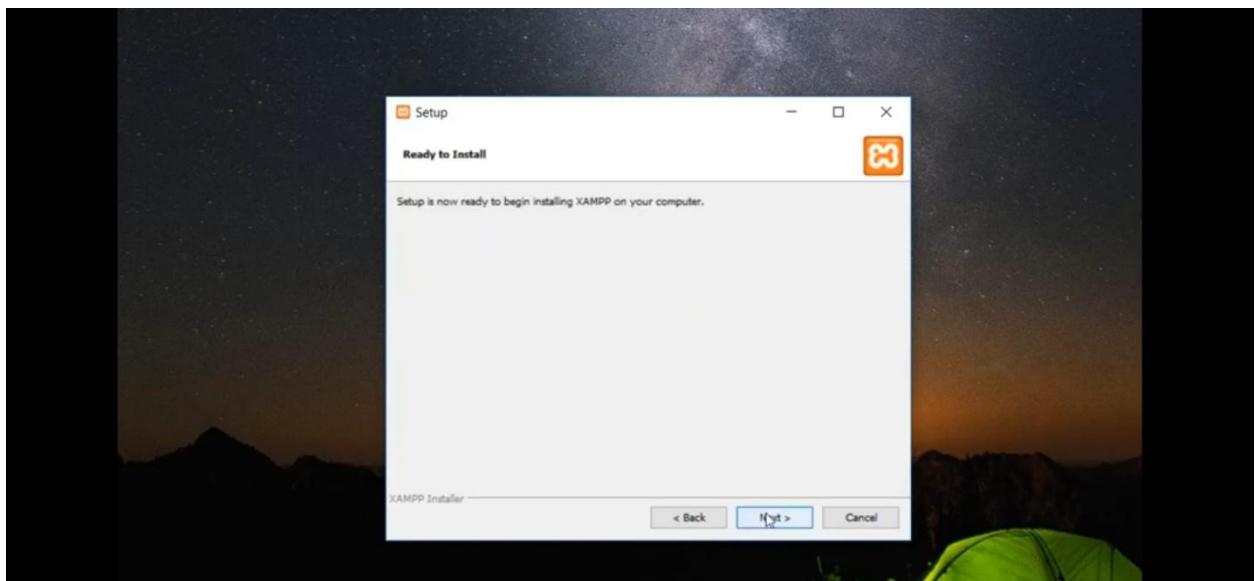
5.Click on Next



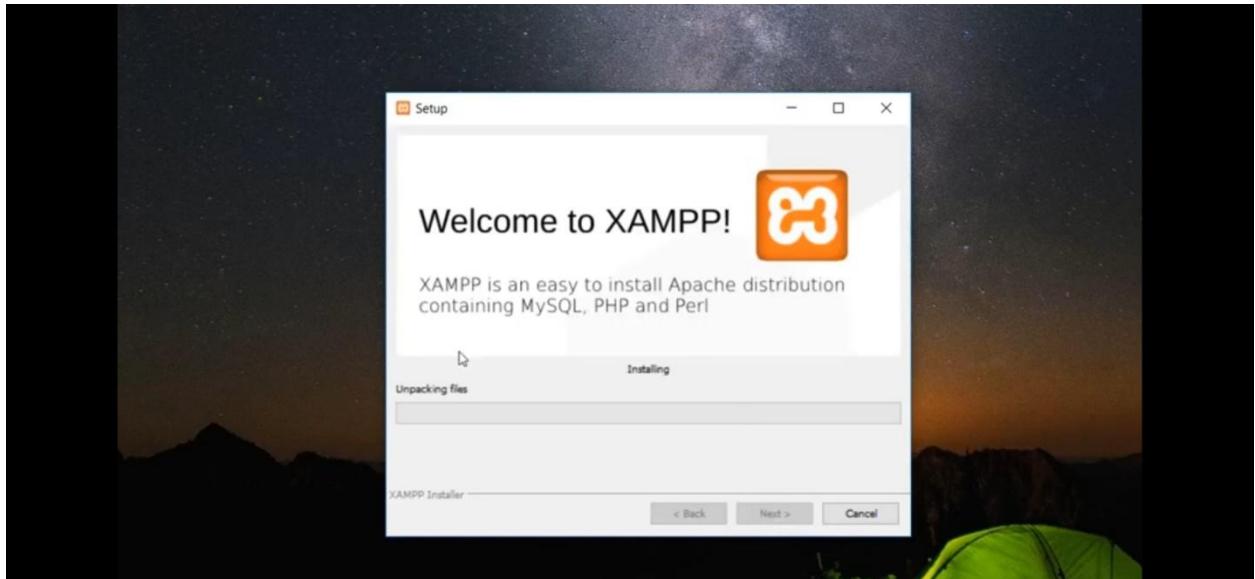
6.Click On Next



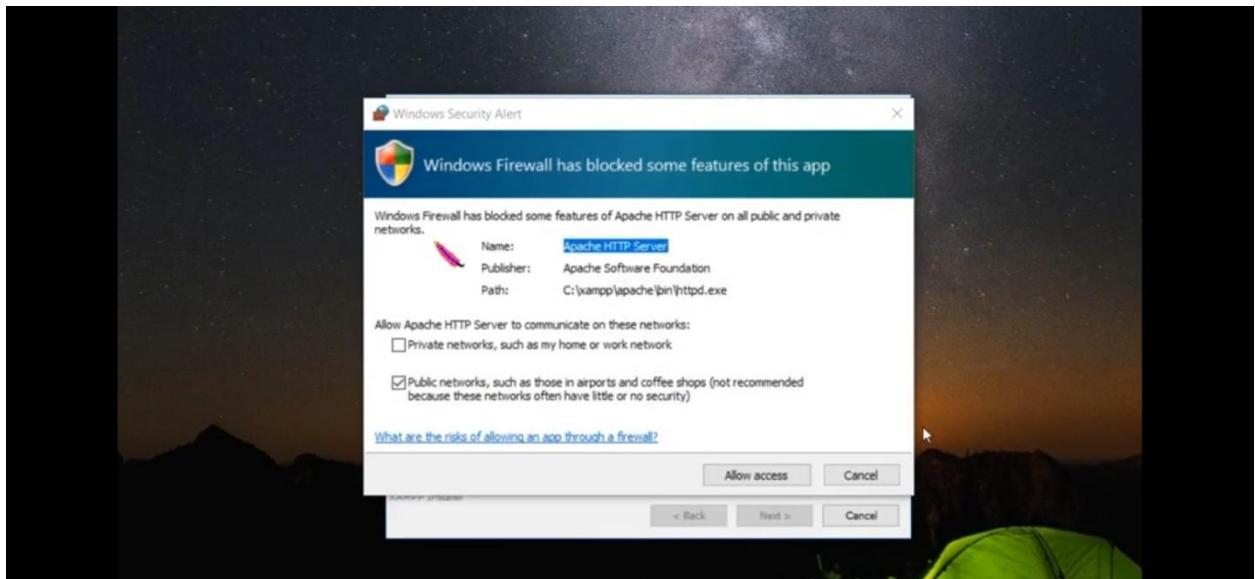
7.Untick the Learn More Option and Click on Next



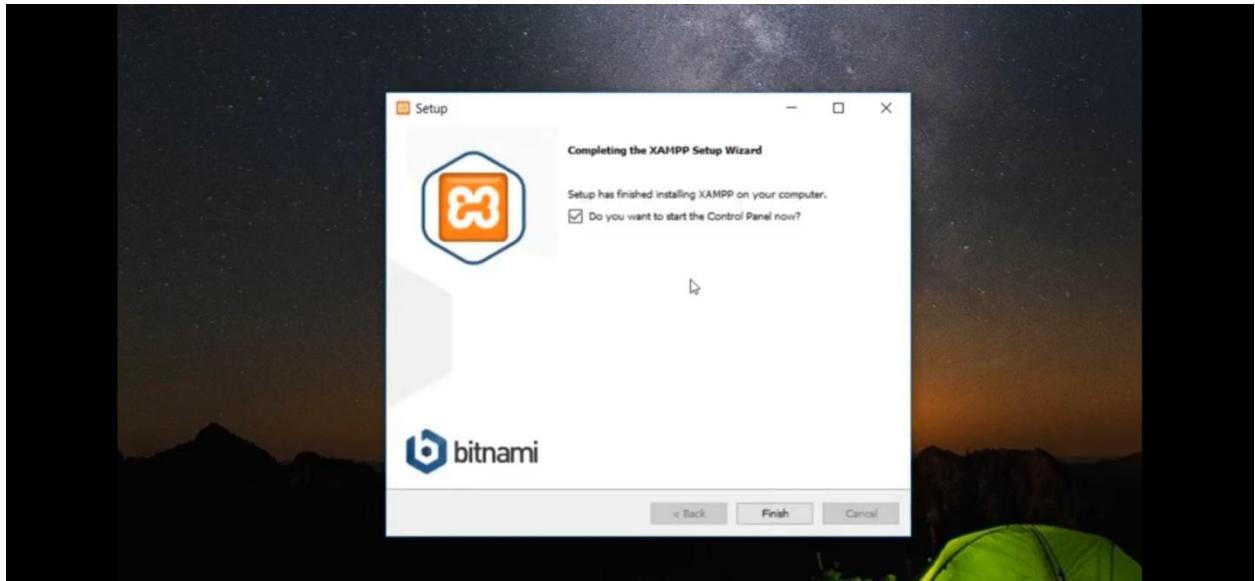
8.Click On Next



9. Wait for Install



10. If This Comes Click On Allow Access

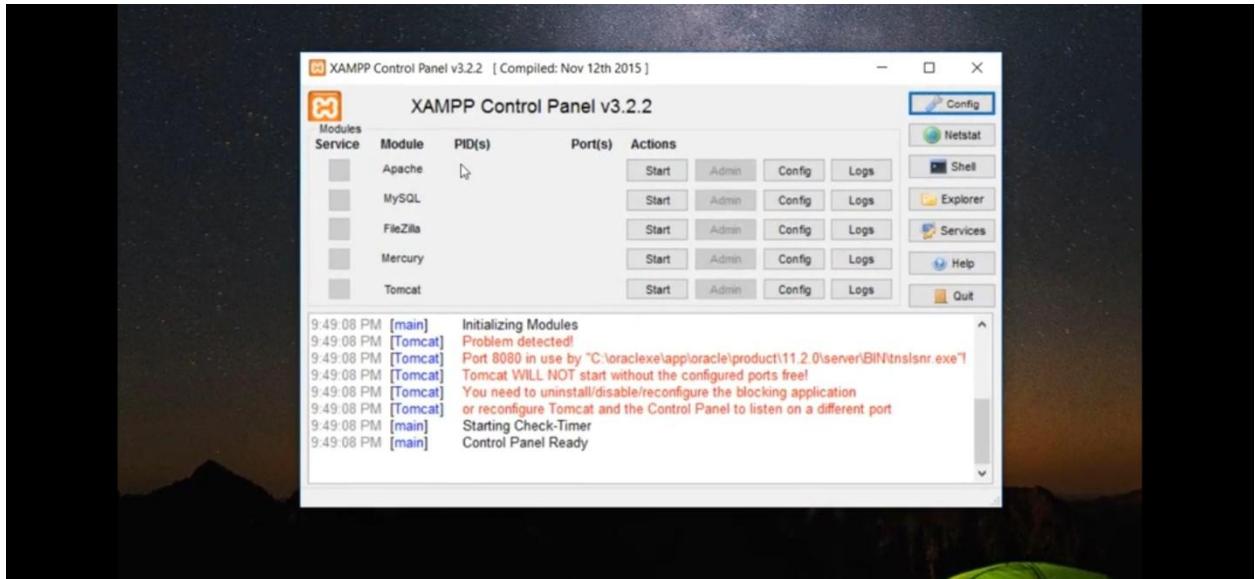


11.Click On Finish

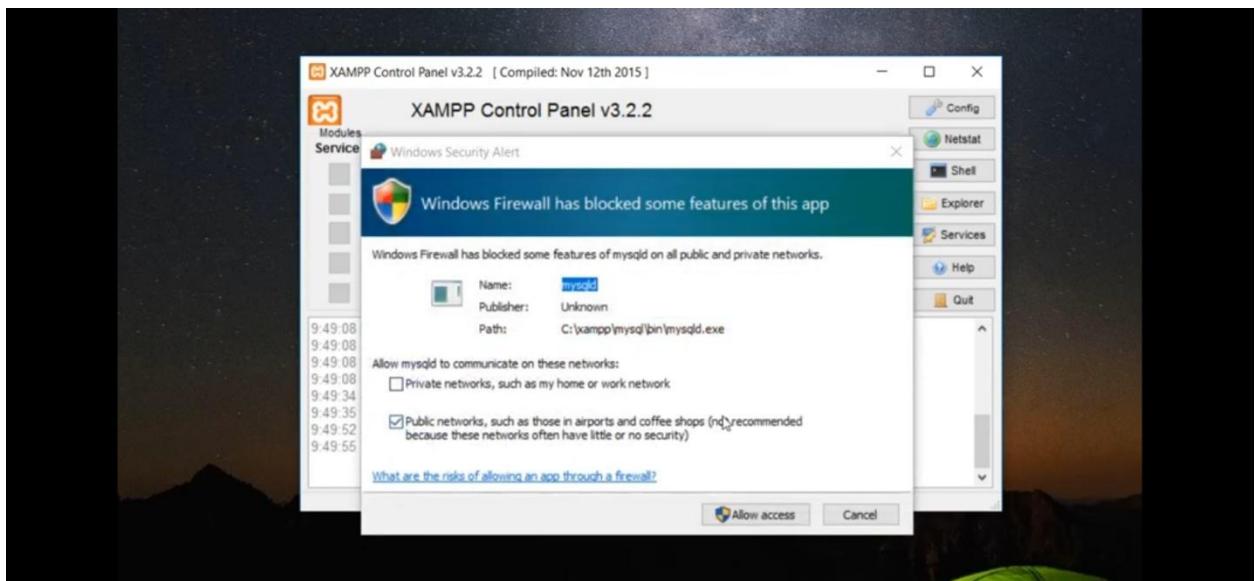


12.Select Language and Save

13.Open Xampp Control Panel

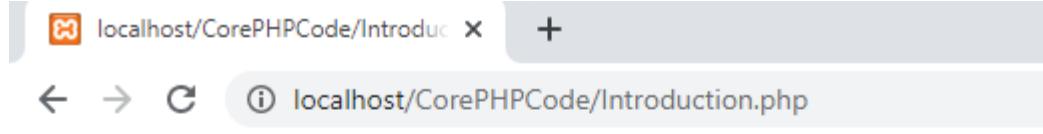


14.Start the Apache and MySQL



15.Click on allow Access

16.Test whether Server is Working or not by just typing
“localhost” on your Browser and also run your code



Hello Sir
Name - Dheeraj
Roll No- 11912020
Branch IT

EXP-5 Creating Websites Using PHP

HTML

```
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3  <head>
4      <meta charset="utf-8">
5      <title></title>
6      <link rel="stylesheet" href="style.css">
7
8  </head>
9  <body>
10 <form action="Welcome.php" method="post">
11 <div class="login-box">
12     <h1>Login</h1>
13     <div class="textbox">
14         <i class="fas fa-user"></i>
15         <input type="text" placeholder="name" class="name">
16         <i class="fas fa-user"></i>
17         <input type="text" placeholder="username" class="username">
18         <i class="fas fa-user"></i>
19         <input type="email" placeholder="email" class="email">
20     </div>
21
22     <div class="textbox">
23         <i class="fas fa-lock"></i>
24         <input type="password" placeholder="Password">
25     </div>
26
27         <input type="submit" class="btn" value="Sign in">
28         <p id="para" class="paral"></p>
29     </div>
30 </form>
31 </body>
32 </html>
33
```

CSS

```
1 |
2 ▼ body{
3     margin: 0;
4     padding: 0;
5     font-family: sans-serif;
6     background: url(bg.jpg) no-repeat;
7     background-size: cover;
8 }
9 ▼ .login-box{
10    width: 280px;
11    position: absolute;
12    top: 50%;
13    left: 50%;
14    transform: translate(-50%,-50%);
15    color: white;
16 }
17 ▼ .login-box h1{
18    float: left;
19    font-size: 40px;
20    border-bottom: 6px solid #4caf50;
21    margin-bottom: 50px;
22    padding: 13px 0;
23 }
24 ▼ .textbox{
25    width: 100%;
26    overflow: hidden;
27    font-size: 20px;
28    padding: 8px 0;
29    margin: 8px 0;
30    border-bottom: 1px solid #4caf50;
31 }
32 ▼ .textbox i{
33    width: 26px;
34    float: left;
35    text-align: center;
36 }
37 ▼ .textbox input{
38    border: none;
39    outline: none;
40    background: none;
41    color: white;
```

Line 1, Column 1 – 57 Lines

E: > Btech IT > Assignment AP > Lab1 > LAB > 5.Creating Website Using PHP > 📄 Welcome.php

```
1 <?php
2         echo "Welcome to php<br>";
3         echo "Your form has been submitted successfully<br>";
4         echo "You will be email soon by our team";
5 ?>
```

OUTPUT

index.html

File | E:/Btech%20IT/Assignment%20AP/Lab1/LAB/3.HTML%20AND%20CSS/index.html

Login

First Name:

Last Name:

UserName:

Email:

University Name:

Password: Password

EXP-6 Understanding JavaScript

HTML

```
1  |<!DOCTYPE html>
2  |<html>
3  ||<head>
4  |||<title>AP Project</title>
5  |||<link rel="stylesheet" href="style.css">
6  |||<script src="script.js"></script>
7  ||</head>
8  ||<body>
9  |||<div class="login-page">
10 ||||<div class="form">
11 ||||||<form class="login-form" method="post">
12 |||||||<input type="text" placeholder="Username" id="uname">
13 |||||||<input type="text" placeholder="Password" id="pass">
14 |||||||<button onclick="validate()">Login</button>
15 |||||||<p class="message">Not Registered?<a href="#">Register</a></p>
16 ||||||</form>
17 ||||</div>
18 ||</div>
19 ||</div>
20 ||</body>
21 </html>
```

JavaScript

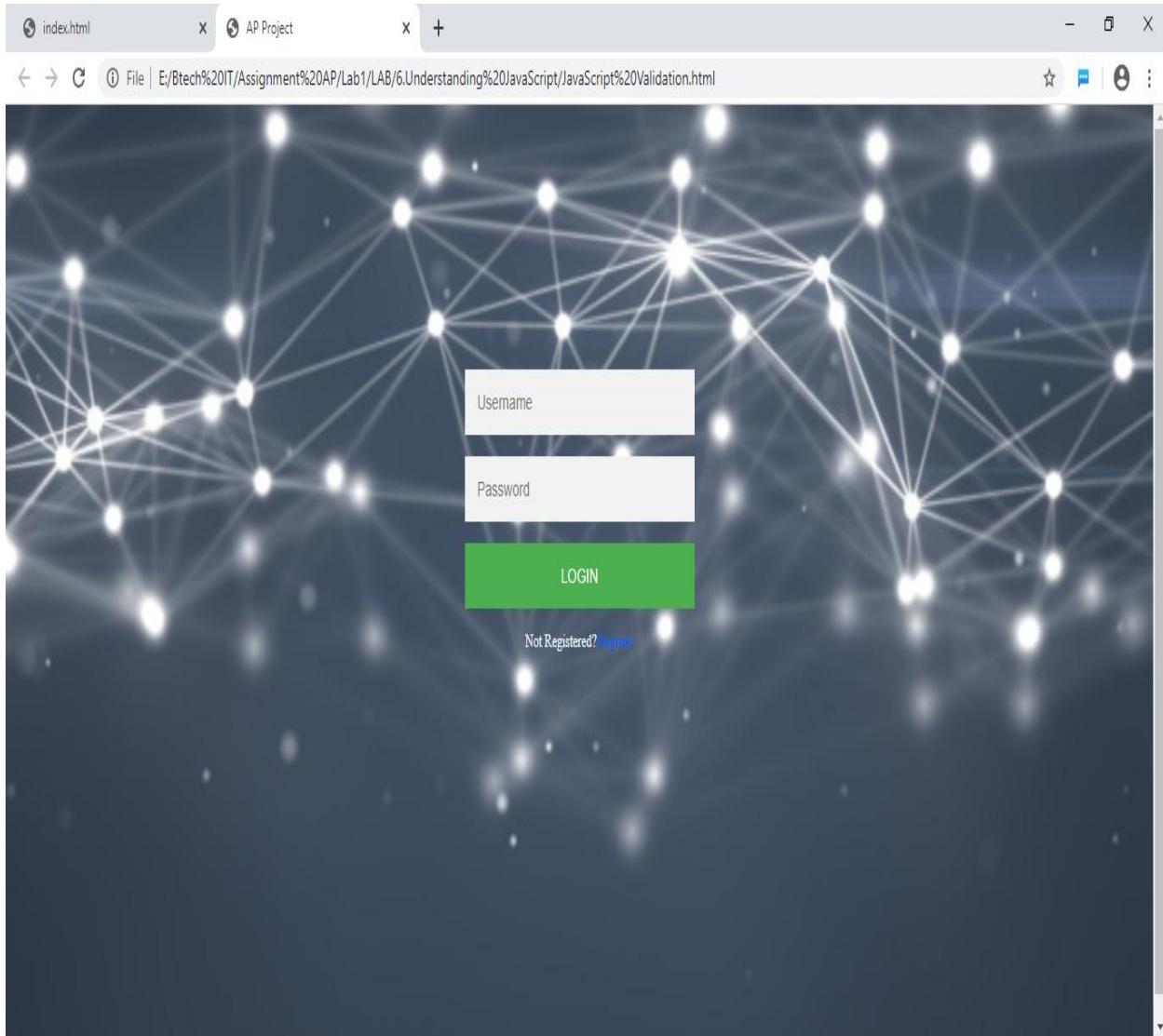
```
1  function validate()
2  {
3      var username=document.getElementById("uname");
4      var password=document.getElementById("pass");
5      var email=document.getElementById("email");
6
7      if(username.value=="" || password.value=="")
8      {
9          alert("No blank values allowed");
10     }
11
12 }
```

CSS

```
1 ▼ body{
2     background-image:url(originalbackground.jpeg);
3     height: 100vh;
4     background-size: cover;
5     background-position: center;
6 }
7 ▼ .login-page{
8     width: 360px;
9     padding: 10% 0 0;
10    margin: auto;
11 }
12 ▼ .form{
13     position: relative;
14     z-index: 1;
15     background: #ffffff;
16     max-width: 360px;
17     margin: 0 auto 100px;
18     padding: 45px;
19     text-align:center;
20 }
21
22 ▼ .form input{
23     font-family: "Roboto",sans-serif;
24     outline: 1;
25     background: #f2f2f2;
26     width: 100%;
27     border: 0;
28     margin: 0 0 15px;
29     padding: 15px;
30     box-sizing: border-box;
31     font-size: 14px;
32 }
33 ▼ .form button{
34     font-family: "Roboto",sans-serif;
35     text-transform: uppercase;
36     outline: 0;
37     background: #4caf50;
38     width: 270px;
39     border: 0;
40     padding: 15px;
41     color: #ffffff;
42     font-size: 14px;
43     cursor: pointer;
44 }
45 }
46 ▼ .form button:hover,.form button:active{
47     background: #43A047;
48 }
49 ▼ .form .message{
50     margin:15px 0 0;
51     color: aliceblue;
52     font-size: 13px;
53 }
54 ▼ .form .message a{
55     color:rgb(1, 95, 246);
56     text-decoration: none;
57 }
58 ▼ .form .register-form{
59     display: none;
60 }
```

Line 1, Column 1 — 60 Lines

Output



EXP-7 Creating a Web Page with back end in PHP and Front end in JavaScript and hosting it on Apache Tomcat Server

HTML

```
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3  <head>
4      <meta charset="utf-8">
5      <title></title>
6      <link rel="stylesheet" href="style.css">
7      <script src="script.js"></script>
8  </head>
9  <body>
10 <form action="Welcome.php" method="get">
11 <div class="login-box">
12     <h1>Login</h1>
13     <div class="textbox">
14         <i class="fas fa-user"></i>
15         <input type="text" placeholder="name" class="name">
16         <i class="fas fa-user"></i>
17         <input type="text" placeholder="username" class="username">
18         <i class="fas fa-user"></i>
19         <input type="email" placeholder="email" class="email">
20     </div>
21
22     <div class="textbox">
23         <i class="fas fa-lock"></i>
24         <input type="password" placeholder="Password">
25     </div>
26
27         <input type="button" class="btn" value="Sign in" onclick="abc()">
28         <p id="para" class="para1"></p>
29     </div>
30 </form>
31 </body>
32 </html>
33
```

PHP

```
1  <?php
2
3      echo "Welcome to php<br>";
4      echo "Your form has been submitted successfully<br>";
5      echo "You will be email soon by our team";
6
7  ?>
```

CSS

```
1  @import "https://use.fontawesome.com/releases/v5.5.0/css/all.css";
2 ▼ body{
3     margin: 0;
4     padding: 0;
5     font-family: sans-serif;
6     background: url(bg.jpg) no-repeat;
7     background-size: cover;
8 }
9 ▼ .login-box{
10    width: 280px;
11    position: absolute;
12    top: 50%;
13    left: 50%;|
14    transform: translate(-50%,-50%);
15    color: white;
16 }
17 ▼ .login-box h1{
18    float: left;
19    font-size: 40px;
20    border-bottom: 6px solid #4caf50;
21    margin-bottom: 50px;
22    padding: 13px 0;
23 }
24 ▼ .textbox{
25    width: 100%;
26    overflow: hidden;
27    font-size: 20px;
28    padding: 8px 0;
29    margin: 8px 0;
30    border-bottom: 1px solid #4caf50;
31 }
32 ▼ .textbox i{
33    width: 26px;
34    float: left;
35    text-align: center;
36 }
37 ▼ .textbox input{
38    border: none;
39    outline: none;
40    background: none;
41 }
```

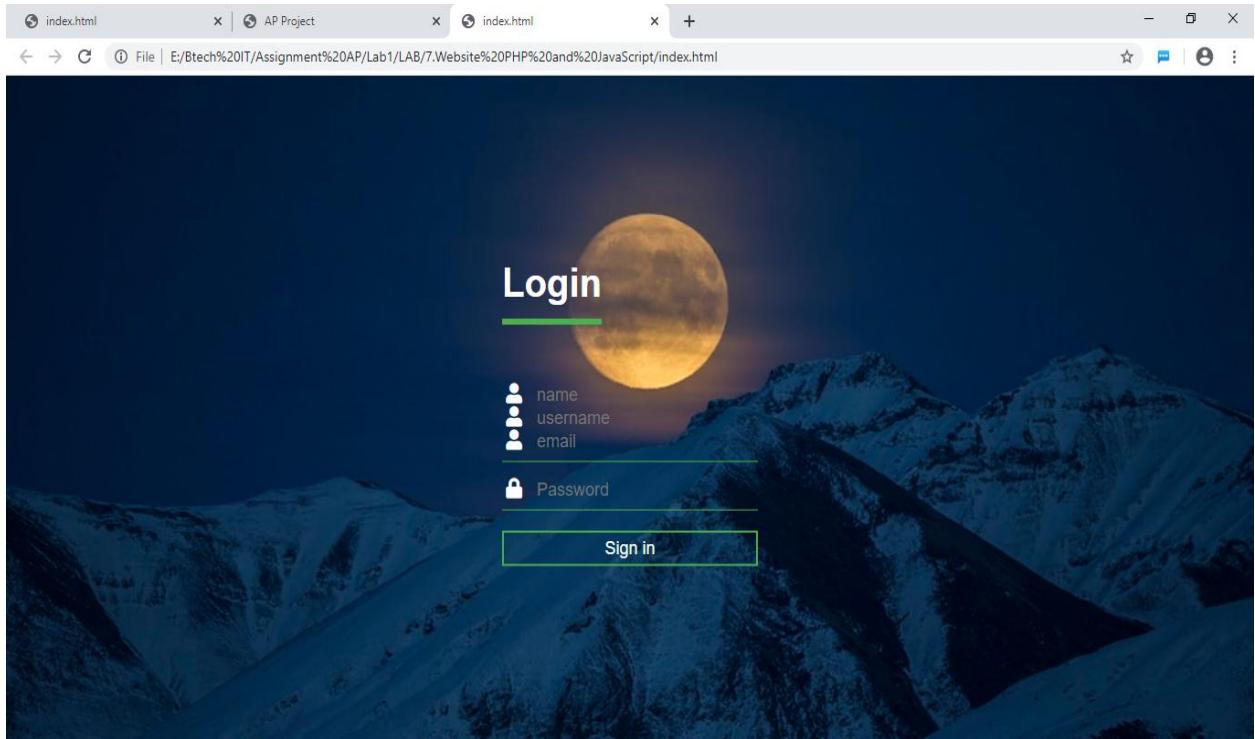
```
40    background: none;
41    color: white;
42    font-size: 18px;
43    width: 80%;
44    float: left;
45    margin: 0 10px;
46  }
47 ▼ .btn{
48    width: 100%;
49    background: none;
50    border: 2px solid #4caf50;
51    color: white;
52    padding: 5px;
53    font-size: 18px;
54    cursor: pointer;
55    margin: 12px 0;
56  }
57
```

Line 13, Column 13 — 57 Lines

JavaScript

```
1  function abc()
2  {
3    var email=document.querySelector('.email').value;
4    var UserName=document.querySelector('.username').value;
5    var Name=document.querySelector('.name').value;
6
7    document.getElementById('para').innerHTML=' Check your Name= '+Name+' username = '+UserName+' email= '+email;
8
9    var html;
10
11   html=<input type="submit" class="btn" id="btn1" value="Final Submit">;
12   document.querySelector('.para1').insertAdjacentHTML('beforeend',html);
13
14 }
```

Output



EXP-8 Writing and understanding program in python

Program to add two numbers

```
1
2
3     # Program to add two numbers
4
5     a=int(input("Enter first number"))
6     b=int(input("Enter second number"))
7
8     sum=a + b
9
10    print("Sum of {0} and {1} is = {2}".format(a,b,sum))
```

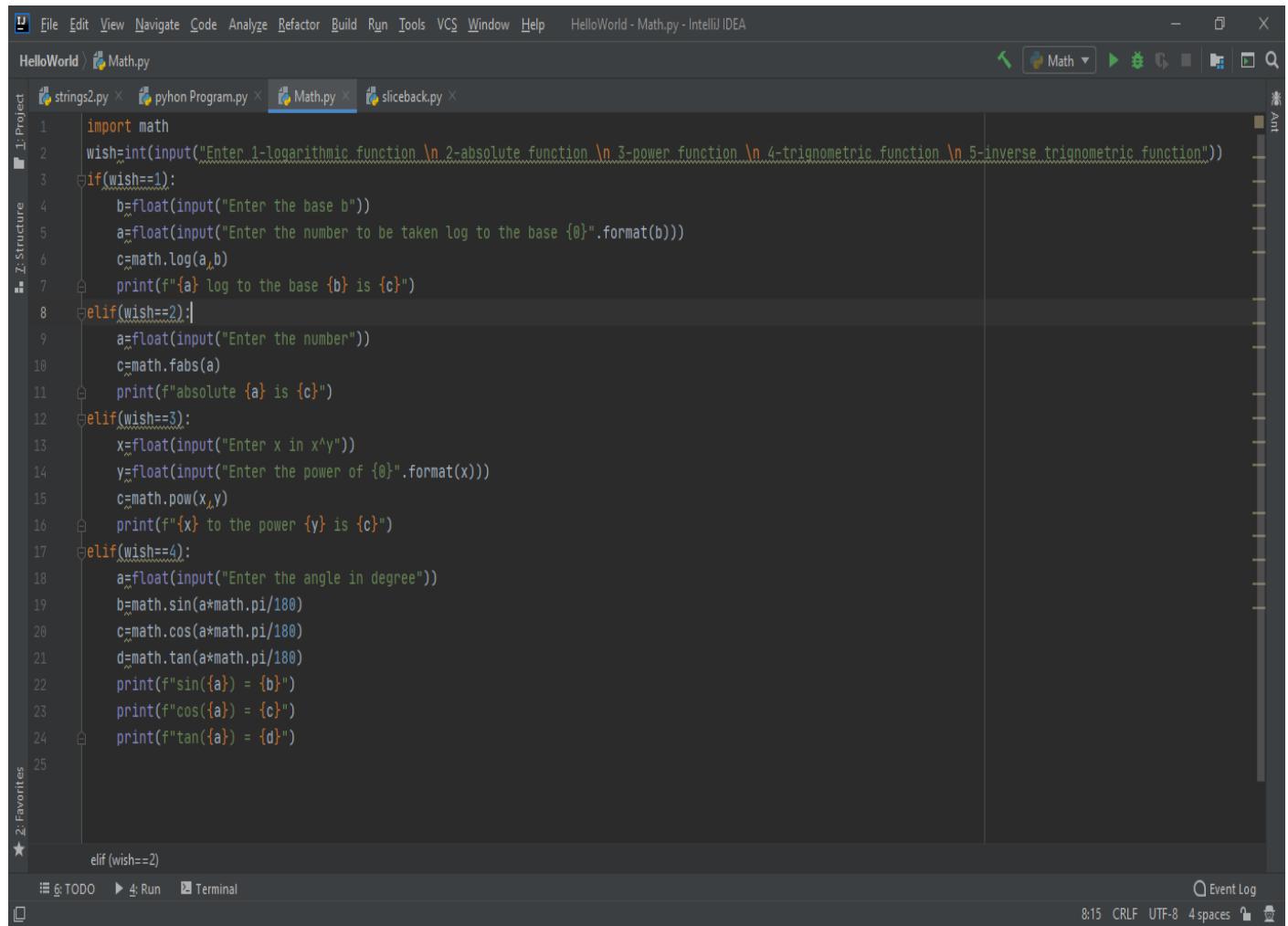
Output

```
Enter first number5
Enter second number7
Sum of 5 and 7 is = 12

Process finished with exit code 0
```

EXP-9 Use python Libraries like Math's statistics to create program for Scientific Computations

CODE



```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help HelloWorld - Math.py - IntelliJ IDEA
HelloWorld Math.py
strings2.py python Program.py Math.py sliceback.py
1:Project 1:Math.py
1  import math
2  wish=int(input("Enter 1-logarithmic function \n 2-absolute function \n 3-power function \n 4-trigonometric function \n 5-inverse trigonometric function"))
3  if(wish==1):
4      b=float(input("Enter the base b"))
5      a=float(input("Enter the number to be taken log to the base {0}".format(b)))
6      c=math.log(a,b)
7      print(f"{a} log to the base {b} is {c}")
8  elif(wish==2):
9      a=float(input("Enter the number"))
10     c=math.fabs(a)
11     print(f"absolute {a} is {c}")
12 elif(wish==3):
13     x=float(input("Enter x in x^y"))
14     y=float(input("Enter the power of {0}".format(x)))
15     c=math.pow(x,y)
16     print(f"{x} to the power {y} is {c}")
17 elif(wish==4):
18     a=float(input("Enter the angle in degree"))
19     b=math.sin(a*math.pi/180)
20     c=math.cos(a*math.pi/180)
21     d=math.tan(a*math.pi/180)
22     print(f"sin({a}) = {b}")
23     print(f"cos({a}) = {c}")
24     print(f"tan({a}) = {d}")
25
26 elif (wish==2)
27 TODO Run Terminal Event Log
8:15 CRLF UTF-8 4 spaces
```

OUTPUT

```
Enter 1-logarithmic function
2-absolute function
3-power function
4-trigonometric function
5-inverse trigonometric function
Enter x in x^y
Enter the power of 5.0
5.0 to the power 2.0 is 25.0

Process finished with exit code 0
```