Application Programming Practical File

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INDEX

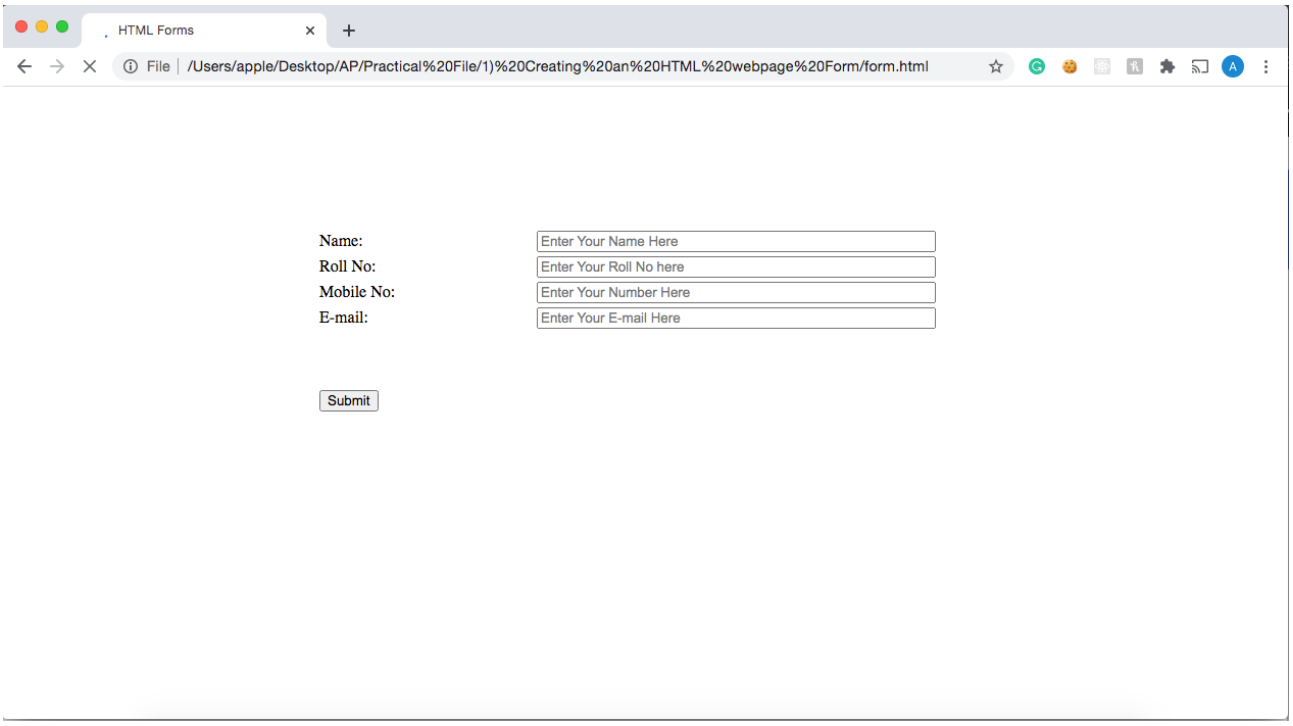
S.No.	Program	Page No.
1	Creating a HTML Page Form	2
2	Creating HomePage using HTML	4
3	Creating XHTML and CSS and understanding its use in creating web pages	6
4	Setting up and configuration of Apache Tomcat server	8
5	Creating Websites using PHP	10
6	Understanding JS	11
7	Creating a Web Page BackEnd in PHP and FrontEnd in JS	13
8	Writing and understanding program in Python	16
9	Use Python Libraries like Math statistics to create programs for scientific calculations	17

Program 1. Creating a HTML Page Form

Code:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>HTML Forms</title>
<style >
  body{ background-color : white; }
  .success{ margin :0px 300px 200px 300px ;
    }
    .container{ margin : auto;
    background-color: white;}
  input[type=text],input[type=email]{ width : 90%;
        }
.body{ padding : 20px;
    text-align :center;
  }
</style>
</head>
<body>
<div class="body">
    <img src="http://iiitsonepat.ac.in/iiits-content/uploads/2019/06/logonew.png" alt="logo" width="60%">
</div>
<div class="success">
  <form class="" method="post">
  <div class="container">
    <table width="100%">
      <tr>
        <td>Name:</td>
        <td><input type="text" placeholder="Enter Your Name Here" required></td><br>
      </tr>
      <tr>
        <td>Roll No:</td>
        <td>  <input type="text" placeholder="Enter Your Roll No here" required></td><br>
      </tr>
      <tr>
        <td>Mobile No:</td>
        <td><input type="text" placeholder="Enter Your Number Here" required></td><br>
      </tr>
        <tr>
      <td>E-mail:</td>
      <td><input type="email" placeholder="Enter Your E-mail Here" required></td><br>
       </tr>
    </table>
    <br><br><br>
    <table width="100%">
<tr>
  <center>
    <td><input type="submit" value="Submit"></td>
  </center>
</tr>
    </table>
</div>
</form>
</div>
</body>
</html>
```

Output:


HTML Forms
File | /Users/apple/Desktop/AP/Practical%20File/1)%20Creating%20an%20HTML%20webpage%20Form/form.html
Name:
Enter Your Name Here
Roll No:
Enter Your Roll No here
Mobile No:
Enter Your Number Here
E-mail:
Enter Your E-mail Here
Submit

Program 2: Creating HomePage using HTML

Code:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">
<html>
<head>
	<title></title>
</head>
<frameset rows="10%, 80%, 10%">
	<frame name="top" src="/Users/apple/Desktop/AP/top.html" />
	<frame name="middle" src="/Users/apple/Desktop/AP/frame1.html" />
	<frame name="bottom" src="/Users/apple/Desktop/AP/bottom.html" />
</frameset>
</html>
```

top.html:

```
<!DOCTYPE html>
<html>
<head>
	<title></title>
</head>
<body bgcolor="#c85528">
	<center><p style="font-size:30px; margin-top: 15px"  >IIIT Sonepat</p></center>
</body>
</html>
```

frame1.html

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "http://www.w3.org/TR/html4/frameset.dtd">
<html>
<head>
	<title></title>
</head>

<frameset cols="20%, 60%, 20%">
	<frame name="details" src="/Users/apple/Desktop/AP/details.html"></frame>
	<frame name="image" src="/Users/apple/Desktop/AP/img.html"></frame>
	<frame name="assignment" src="/Users/apple/Desktop/AP/assignment.html"></frame>
</frameset>
</html>
```

bottom.html:

```
<!DOCTYPE html>
<html>
<head>
	<title></title>
</head>
<body bgcolor="c85528">
	<p align="right">Contact Detail: iiitsonepat@gmail.com</p>
</body>
</html>
```

Output:

Program 3: Creating XHTML and CSS and understanding its use in creating web pages

Code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
```

```
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html lang="en" dir="ltr">
  <head>
    <title>Registration Form</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>

<center><img src="logo.png" width="50%" height="100px"></center>
    <div class="acc">
      <h1>Create Your Account</h1>
    </div>
    <div>
       <div class="dv">
<form method="post">
  <table width="100%">
    <th><label>First Name</label>
    <input type="text" placeholder="Enter your Firstname here"></th>
    <th><label for="">Last Name</label>
    <input type="text" placeholder="Enter your Lastname here"></th>
  </table>
  <br>
  <div>
    <label class="abc"><b>E-mail:</b></label>
<br>
<input type="email" placeholder="Enter your email here">
<br>
<label class="abc">Gender:</label>
<input type="radio" name="ab" value="male">Male
<input type="radio" name="ab" value="female">Female
<input type="radio" name="ab" value="others">Others
<br>
  </div>
  <hr>
  <table width="100%">
    <th><input type="submit"  value="Register"></th>
    <th><input type="reset"  value="Clear"></th>
  </table>
</form>
</div>
</div>
</body>
</html>
```

stylesheet.css:

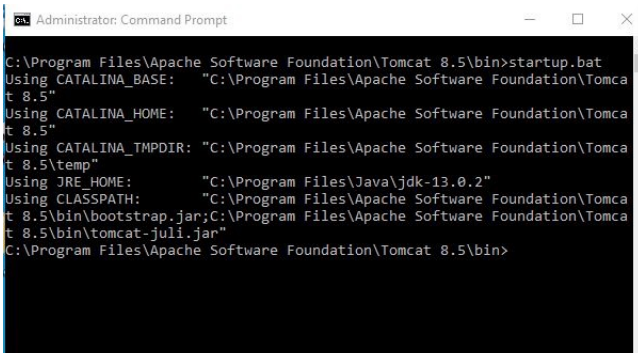
```
.dv{ background-color:#4a4646;
```

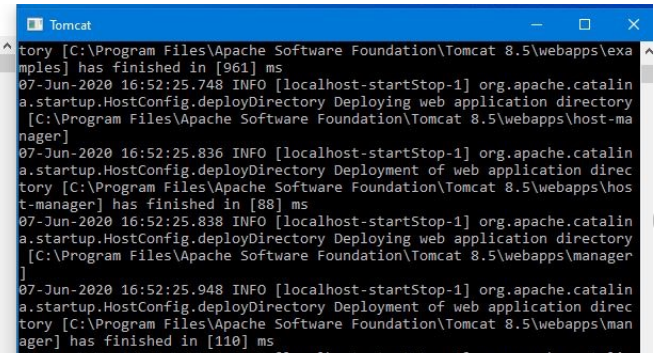
Program 4: Setting up and configuration of Apache Tomcat server

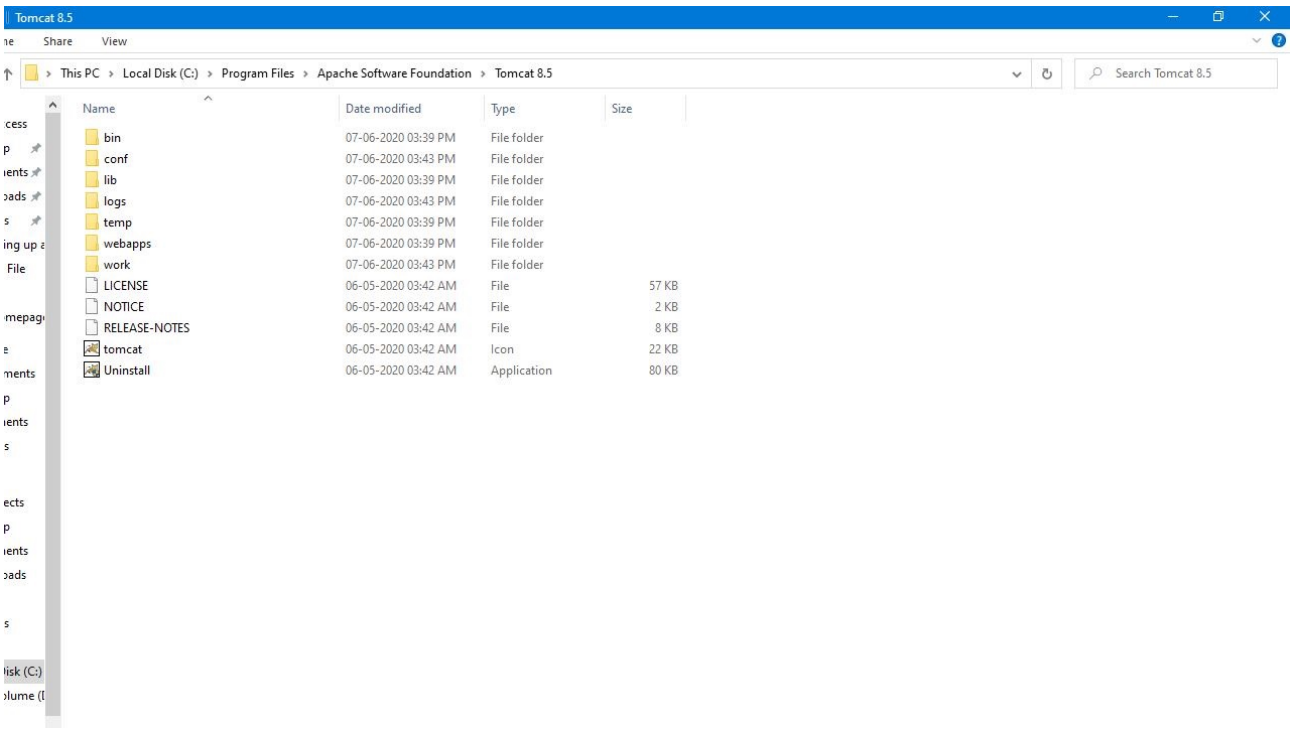
```
   margin: 0px 300px 300px 300px;}
   .abc{margin-left: 60px;}

input[type=email]{width:50%;
     margin-left: 60px;
   }

body{background-color:#212020}
.acc{
            color: white;
            text-align: center;
   text-shadow: 5px;
  padding: 2px;
margin: auto;}
```

Output:

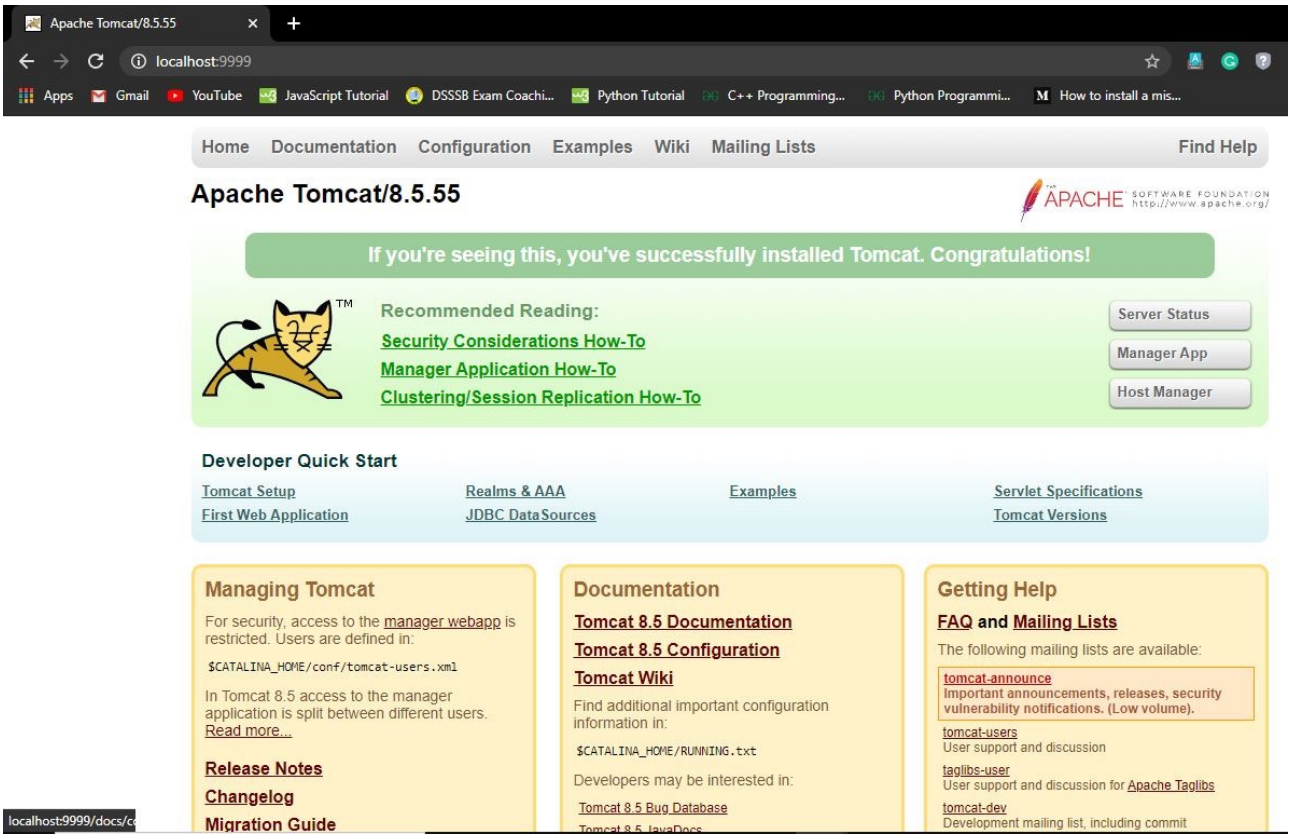
STEPS:






Tomcat 8.5
Share
View
This PC
Local Disk (C:)
Program Files
Apache Software Foundation
Tomcat 8.5
Search Tomcat 8.5
Name
Date modified
Type
Size
bin 07-06-2020 03:39 PM File folder
conf 07-06-2020 03:43 PM File folder
lib 07-06-2020 03:39 PM File folder
logs 07-06-2020 03:43 PM File folder
temp 07-06-2020 03:39 PM File folder
webapps 07-06-2020 03:39 PM File folder
work 07-06-2020 03:43 PM File folder
LICENSE 06-05-2020 03:42 AM File 57 KB
NOTICE 06-05-2020 03:42 AM File 2 KB
RELEASE-NOTES 06-05-2020 03:42 AM File 8 KB
tomcat 06-05-2020 03:42 AM Icon 22 KB
Uninstall 06-05-2020 03:42 AM Application 80 KB

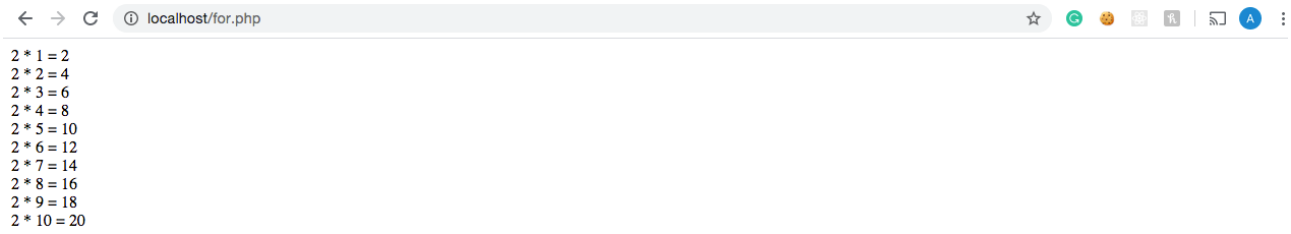
Program 5: Creating Websites using PHP



Code:

```
<html>
  <body>
    <?php
      $a = 2;

      for( $i = 1; $i<=10; $i++ ) {
        $temp = $a * $i;
        echo("$a * $i = $temp");
        echo("<br>");
      }
    ?>
  </body>
</html>
```

Program 6: Understanding JS



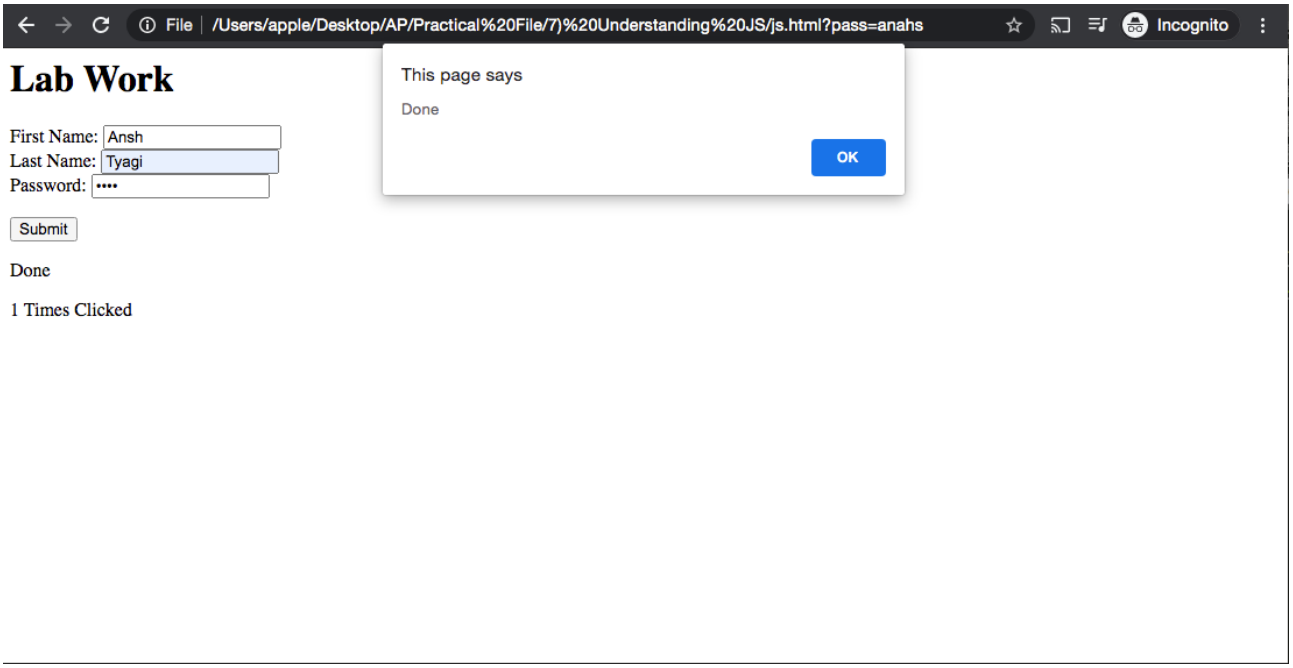
Output:

Code:

```
<html>
  <head>
    <title>Lab Work</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  </head>
  <div class="jumbotron text-center">
    <h1>Lab Work</h1>
  </div>
  <div class='container'>
    <form class="form-horizontal" name=form onsubmit="validateForm()">
      <div class="form-group">
        <label>First Name:</label>
        <input type='text' class='form-control' id='fname'>
      </div>
      <div class = 'form-group'>
        <label>Last Name:</label>
        <input type="text" class='form-control' id='lname'>
      </div>
      <div class="form-group">
        <label>Password:</label>
        <input type='password'class='form-control' id='pwd' name ="pass" required>
        <p class="checkpass"></p>
      </div>
      <button type="submit" class="btn btn-default" id="submit">Submit</button>
```

```
        <p id="state">NOT SUBMITTED</p>
        <p id="num"></p>
      </form>
    </div>
    <script>
      var submit = document.querySelector("#submit")
      var num_pressed = 0;
      var dis = document.querySelector("#num")
      dis.textContent = "0 times clicked"
      submit.addEventListener("click", function(){
        num_pressed++;
        dis.textContent = num_pressed + " Times Clicked";
        document.getElementById("state").innerHTML = "Done";
        alert("Done");
      })

      function validateForm(){
        var x = document.forms['form']['pass'].value;
        if(x==""){
          alert("error");
          return false;
        }
      }
    </script>
</html
```

Output:



Code:

```
<!DOCTYPE html>
```

Program 7: Creating a Web Page BackEnd in PHP and FrontEnd in JS

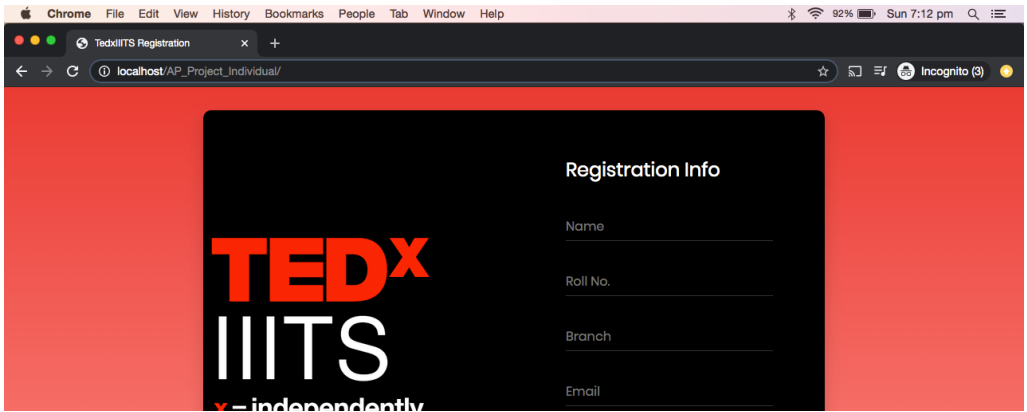
```
<html lang="en">
<head>
   <!-- Required meta tags-->
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
   <!-- Title Page-->
   <title>TedxIIITS Registration</title>
   <!-- Icons font CSS-->
   <link href="vendor/mdi-font/css/material-design-iconic-font.min.css" rel="stylesheet" media="all">
   <link href="vendor/font-awesome-4.7/css/font-awesome.min.css" rel="stylesheet" media="all">
   <!-- Font special for pages-->
   <link
href="https://fonts.googleapis.com/css?family=Poppins:100,100i,200,200i,300,300i,400,400i,500,500i,600,600i,700,700i,
800,800i,900,900i" rel="stylesheet">
   <link href="vendor/select2/select2.min.css" rel="stylesheet" media="all">
   <link href="vendor/datepicker/daterangepicker.css" rel="stylesheet" media="all">
   <link href="style.css" rel="stylesheet" media="all">
</head>
<body>
   <div class="page-wrapper bg-gra-01 p-t-180 p-b-100 font-poppins">
      <div class="wrapper wrapper-w780">
         <div class="card card-1">
            <div class="card-heading"></div>
            <div class="card-body">
               <h2 class="title">Registration Info</h2>
               <form method="POST" action="server.php">
                  <div class="input-group">
                     <input class="input-style" type="text" placeholder="Name" name="name">
                  </div>
                  <div class="input-group">
                     <input class="input-style" type="text" placeholder="Roll No." name="rollno">
                  </div>
                  <div class="input-group">
                     <input class="input-style" type="text" placeholder="Branch" name="branch">
                  </div>
                  <div class="input-group">
                     <input class="input-style" type="email" placeholder="Email" name="email">
                  </div>
                  <div class="input-group">
                     <input class="input-style" type="text" placeholder="Phone" name="phone">
                  </div>
                  <div class="p-t-10">
                     <button class="btn btn-pill btn-red" type="submit">Submit</button>
                  </div>
               </form>
            </div>
         </div>
      </div>
   </div>
</body>
</html>
```

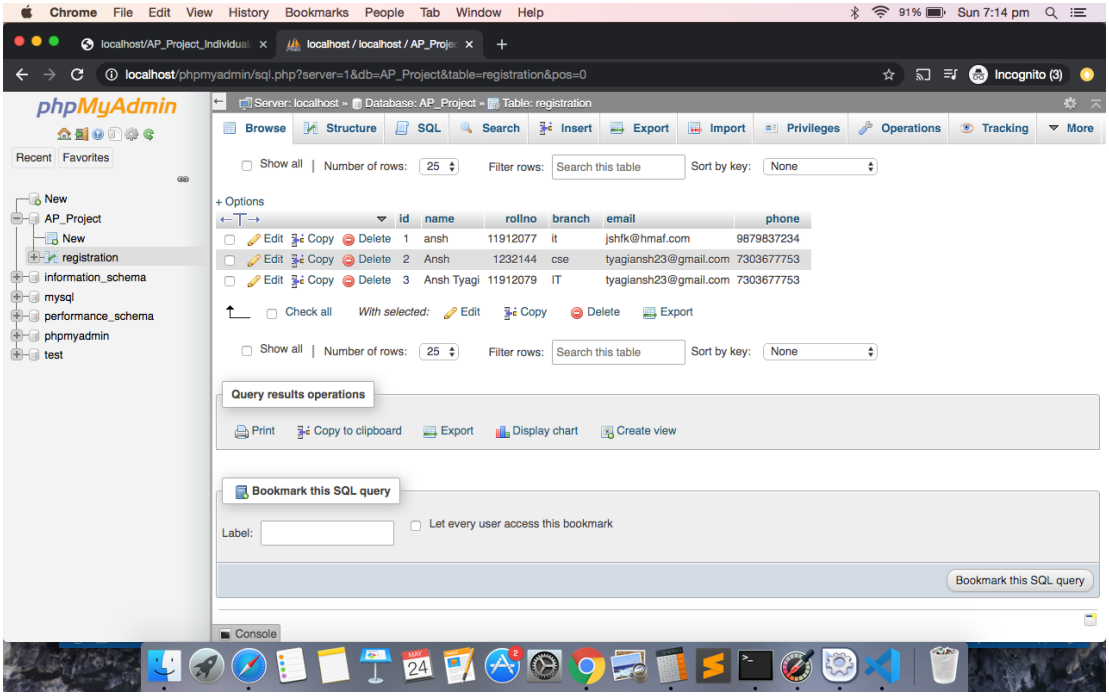
server.php

```
<html>
<head><link rel="stylesheet" href="style.css"></head>
<body>
<div class="page-wrapper bg-gra-01 p-t-180 p-b-100 font-poppins">
<?php
   $name = $_POST["name"];
   $rollno = $_POST["rollno"];
```

```
    $branch = $_POST["branch"];
    $email = $_POST["email"];
    $phone = $_POST["phone"];

    $connection = new mysqli('localhost','root','','AP_Project');
    if($connection->connect_error){
        die('Connection Failed');
    }
    else{
        $stmt = $connection->prepare("Insert into registration(name,rollno,branch,email,phone) values(?,?,?,?,?)");
        $stmt->bind_param("sissi",$name,$rollno,$branch,$email,$phone);
        $stmt->execute();
        $stmt->close();
        $connection->close();
    }
?>
<center><button class="btn btn-pill btn-red">DONE!</button></center>
</div>
</body>
</html>
```

Output:



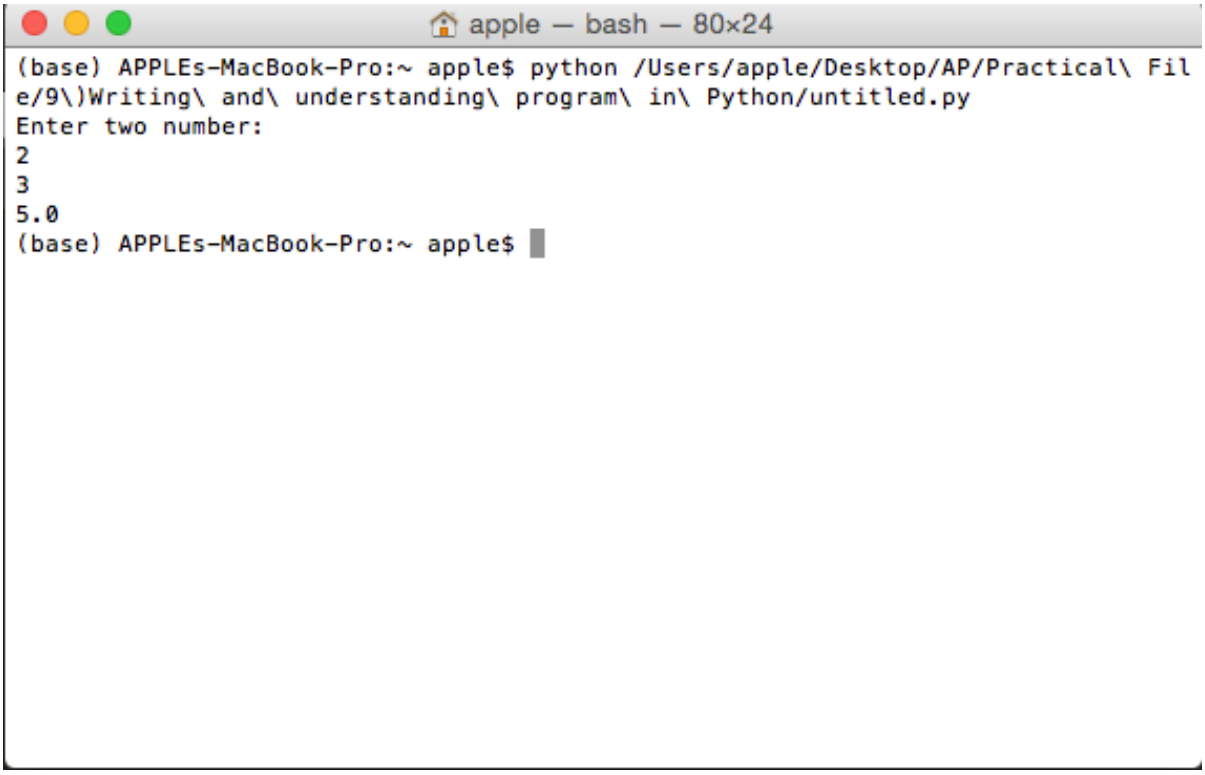

Chrome File Edit View History Bookmarks People Tab Window Help
91% Sun 7:14 pm
localhost/AP_Project_Individual
localhost / localhost / AP_Proje
localhost/phpmyadmin/sql.php?server=1&db=AP_Project&table=registration&pos=0
Incognito (3)
phpMyAdmin
Recent Favorites
New
AP_Project
New
registration
information_schema
mysql
performance_schema
phpmyadmin
test
Server: localhost » Database: AP_Project » Table: registration
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking More
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
+ Options
id name rollno branch email phone
Edit Copy Delete 1 ansh 11912077 it jshfk@hmaf.com 9879837234
Edit Copy Delete 2 Ansh 1232144 cse tyagiansh23@gmail.com 7303677753
Edit Copy Delete 3 Ansh Tyagi 11912079 IT tyagiansh23@gmail.com 7303677753
Check all With selected: Edit Copy Delete Export
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query
Label:
Let every user access this bookmark
Bookmark this SQL query
Console

Program 8: Writing and understanding program in Python

Code:

```
def add(x,y):
        total = float(a)+float(b);
        return total

print("Enter two number:")
a = input()
b= input()
print(add(a,b));
```

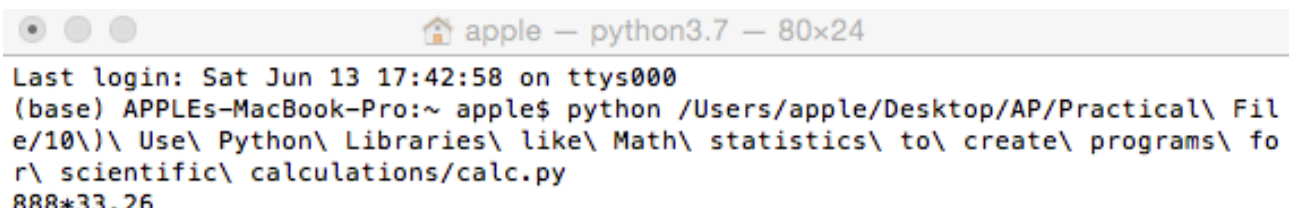
Output:



Code:

```
from tkinter import *
```

Program 9: Use Python Libraries like Math statistics to create programs for scientific calculations

```
class Calc:
    def __init__(self,master):
        self.master = master
        master.title("Python Calculator")
        self.screen = Text(master,state='disabled',width=30,height=3,background="white",foreground="blue")
        self.screen.grid(row=0,column=0,columnspan=4,padx=5,pady=5)
        self.screen.configure(state='normal')
        self.equation = ''
        b1=self.createButton(7)
        b2=self.createButton(8)
        b3=self.createButton(9)
        b4=self.createButton(u"\u232B",None)
        b5=self.createButton(4)
        b6=self.createButton(5)
        b7=self.createButton(6)
        b8=self.createButton(u"\u00F7")
        b9=self.createButton(1)
        b10=self.createButton(2)
        b11=self.createButton(3)
        b12=self.createButton('*')
        b13=self.createButton('.')
        b14=self.createButton(0)
        b15=self.createButton('+')
        b16=self.createButton('-')
        b17=self.createButton('=',None,40)
        buttons = [b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16,b17]
        count=0
        for row in range(1,5):
            for col in range(4):
                buttons[count].grid(row=row,column=col)
                count+=1
        buttons[16].grid(row=5,column =0,columnspan=4)
    def createButton(self,val,write=True,width=7):
        return Button(self.master,text=val,command=lambda : self.click(val,write),width=width,padx=5,pady=5)
    def click(self,text,write):
        if write ==None:
            if text == '=' and self.equation:
                self.equation=re.sub(u"\u00F7",'/',self.equation)
                print(self.equation)
                ans = str(eval(self.equation))
                self.clear_screen()
                self.insert_screen(ans,newline=True)
            elif text == u"\u232B":
                self.clear_screen()
        else:
            self.insert_screen(text)
    def clear_screen(self):
        self.equation=''
        self.screen.configure(state='normal')
        self.screen.delete('1.0',END)
    def insert_screen(self,value,newline=False):
        self.screen.configure(state="normal")
        self.screen.insert(END,value)
        self.equation += str(value)
        self.screen.configure(state='disabled')
root = Tk()
my_gui = Calc(root)
root.mainloop()
```

Output: