

Application Programming

Practical File



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INDEX

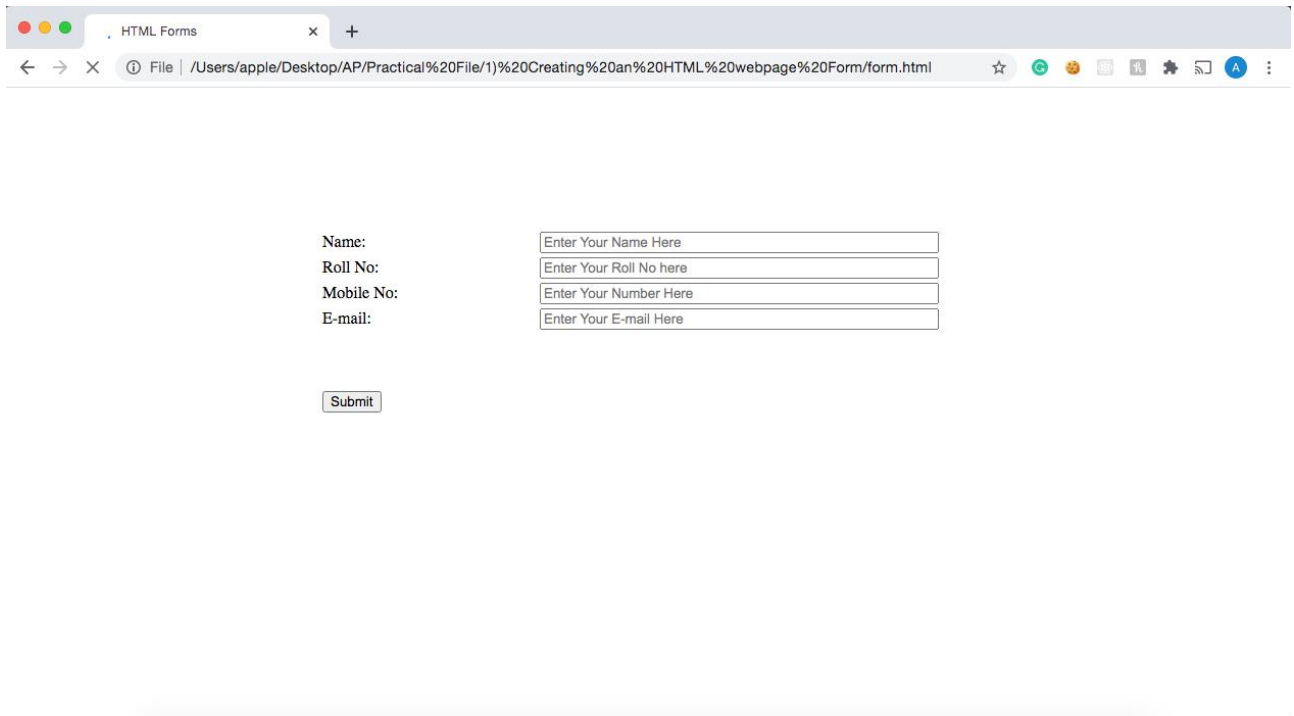
S.No.	Program	Page No.
1	Creating a HTML Page Form	2
2	Creating HomePage using HTML	4
3	Creating XHTML and CSS and understanding its use in creating web pages	6
4	Setting up and configuration of Apache Tomcat server	8
5	Creating Websites using PHP	10
6	Understanding JS	11
7	Creating a Web Page BackEnd 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	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">
 </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:



A screenshot of a web browser window titled "HTML Forms". The address bar shows the file path: `File | /Users/apple/Desktop/AP/Practical%20File/1)%20Creating%20an%20HTML%20webpage%20Form/form.html`. The form contains the following elements:

Name:	<input type="text" value="Enter Your Name Here"/>
Roll No:	<input type="text" value="Enter Your Roll No here"/>
Mobile No:	<input type="text" value="Enter Your Number Here"/>
E-mail:	<input type="text" value="Enter Your E-mail Here"/>

Below the input fields is a "Submit" button.

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 Sonapat</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></
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;  
  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;}
```

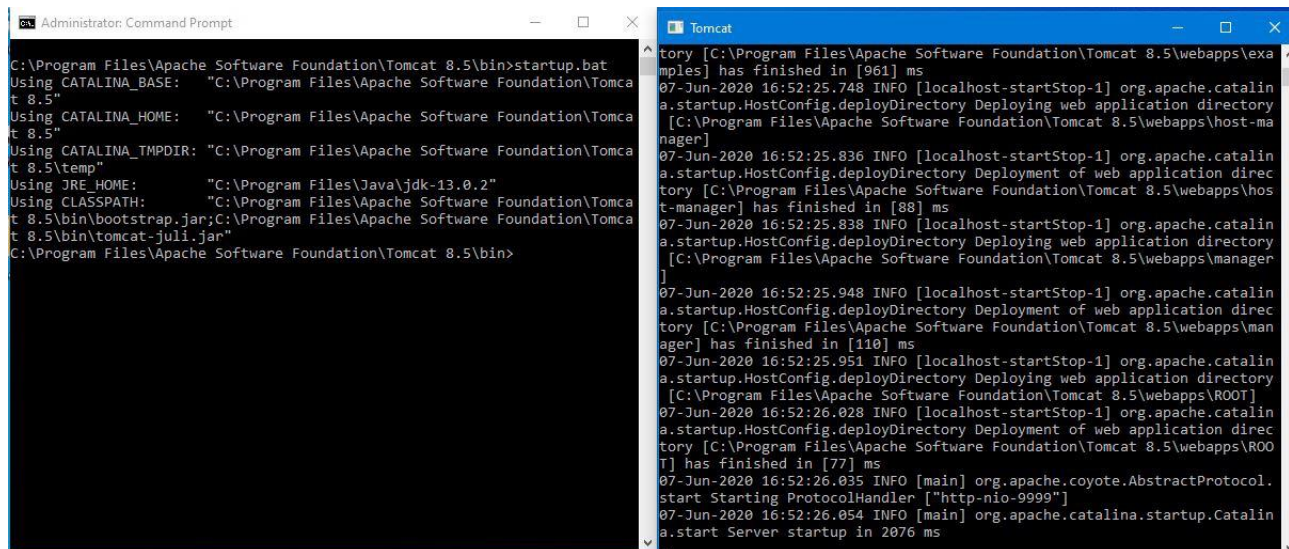
Output:



The image shows a web form titled "SocialNetwork" with the subtitle "Create Your Account". The form is set against a dark background. It contains several input fields: "First Name" with placeholder text "Enter your Firstname here", "Last Name" with placeholder text "Enter your Lastname here", and "E-mail:" with placeholder text "Enter your email here". Below the email field, there is a "Gender:" label followed by three radio button options: "Male", "Female", and "Others". At the bottom of the form, there are two buttons: "Register" and "Clear".

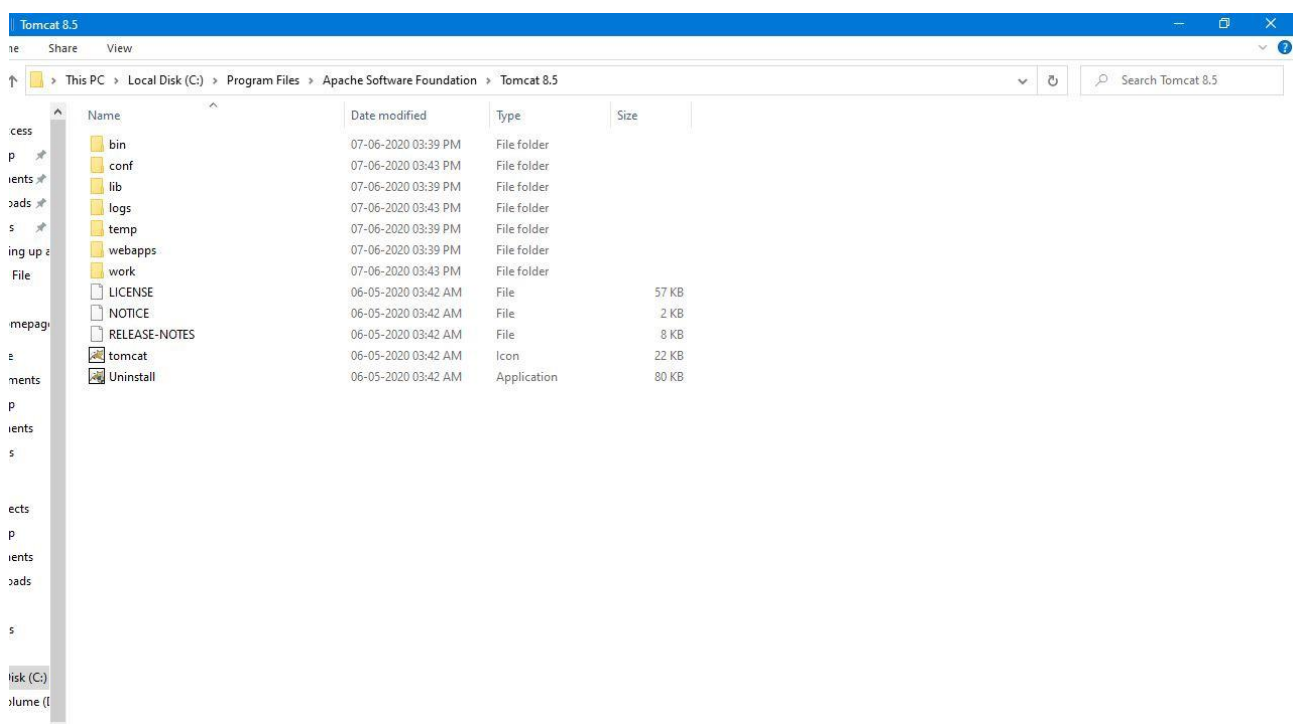
Program 4: Setting up and configuration of Apache Tomcat server

STEPS:



```
<!-- The contents of this file will be loaded for each web application -->
<Context reloadable="true">
```

```
    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                   -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
```



Apache Tomcat/8.5.55


localhost:9999

AppsGmailYouTubeJavaScript TutorialDSSSB Exam Coachi...Python TutorialC++ Programming...Python Programmi...How to install a mis...

HomeDocumentationConfigurationExamplesWikiMailing ListsFind Help

Apache Tomcat/8.5.55

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:
[Security Considerations How-To](#)
[Manager Application How-To](#)
[Clustering/Session Replication How-To](#)

Server Status

Manager App

Host Manager

Developer Quick Start

Tomcat Setup
First Web Application

Realms & AAA
JDBC Data Sources

Examples

Servlet Specifications
Tomcat Versions

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:
`$CATALINA_HOME/conf/tomcat-users.xml`
In Tomcat 8.5 access to the manager application is split between different users.
[Read more...](#)

Release Notes

Changelog

Migration Guide

Documentation

[Tomcat 8.5 Documentation](#)
[Tomcat 8.5 Configuration](#)
[Tomcat Wiki](#)
Find additional important configuration information in:
`$CATALINA_HOME/RUNNING.txt`
Developers may be interested in:
[Tomcat 8.5 Bug Database](#)
[Tomcat 8.5 JavaDocs](#)

Getting Help

[FAQ and Mailing Lists](#)
The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
User support and discussion

[taglibs-user](#)
User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)
Development mailing list, including commit

localhost:9999/docs/c

Page 9! of 18!

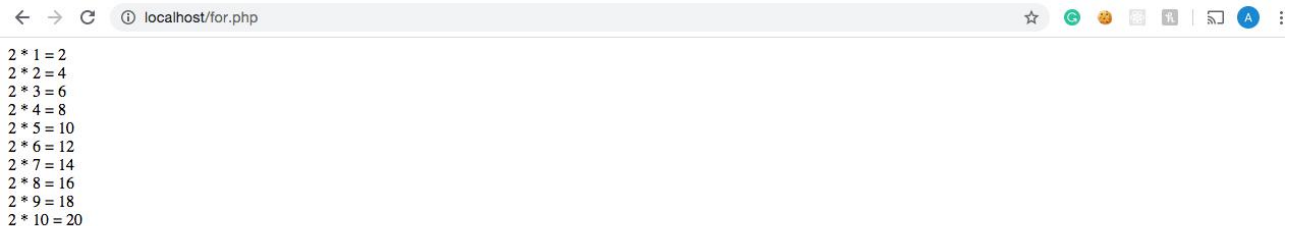
Program 5: Creating Websites using PHP

Code:

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

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

Output:



← → ↻ ⓘ localhost/for.php ☆ 🌐 📄 📁 📂 📅 📆 📇 📈 📉 📊 📋 📌 📍 📎 📏 📐 📑 📒 📓 📔 📕 📖 📗 📙 📚 📛 📜 📝 📞 📟 📠 📡 📢 📣 📤 📥 📦 📧 📨 📩 📪 📫 📬 📭 📮 📯 📰 📱 📲 📳 📴 📵 📶 📷 📸 📹 📺 📻 📼 📽 📾 📿 📠 📡 📢 📣 📤 📥 📦 📧 📨 📩 📪 📫 📬 📭 📮 📯 📰 📱 📲 📳 📴 📵 📶 📷 📸 📹 📺 📻 📼 📽 📾 📿

```
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
```

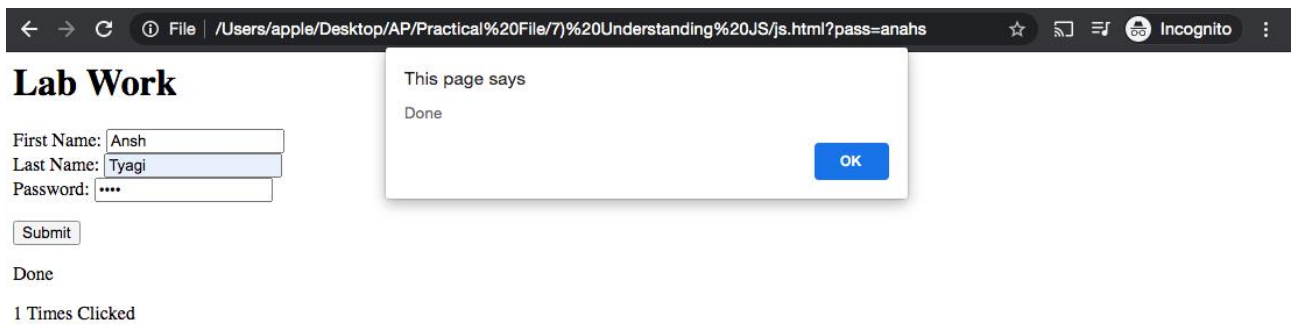
Program 6: Understanding JS

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:



The screenshot shows a web browser window with the address bar displaying the file path: `/Users/apple/Desktop/AP/Practical%20File/7)%20Understanding%20JS/js.html?pass=anahs`. The browser is in Incognito mode. The page content includes a heading **Lab Work**, followed by three input fields: 'First Name: Ansh', 'Last Name: Tyagi', and 'Password: ****'. Below these is a 'Submit' button. A confirmation dialog box is open, displaying the text 'This page says' and 'Done', with an 'OK' button.

Lab Work

First Name: Ansh
Last Name: Tyagi
Password: ****

Submit

Done

1 Times Clicked

Program 7: Creating a Web Page

BackEnd in PHP and FrontEnd in JS

Code:

```
<!DOCTYPE html>
<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:

Registration Info

Name

Roll No.

Branch

Email

Phone

TEDx
IIITS
x = independently organized TED event

Server: localhost - Database: AP_Project - Table: registration

Options: Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

<input type="checkbox"/>	Edit	Copy	Delete	1	anah	11912077
<input type="checkbox"/>	Edit	Copy	Delete	2	Ansh	1232144
<input type="checkbox"/>	Edit	Copy	Delete	3	Ansh Tyagi	11912079

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

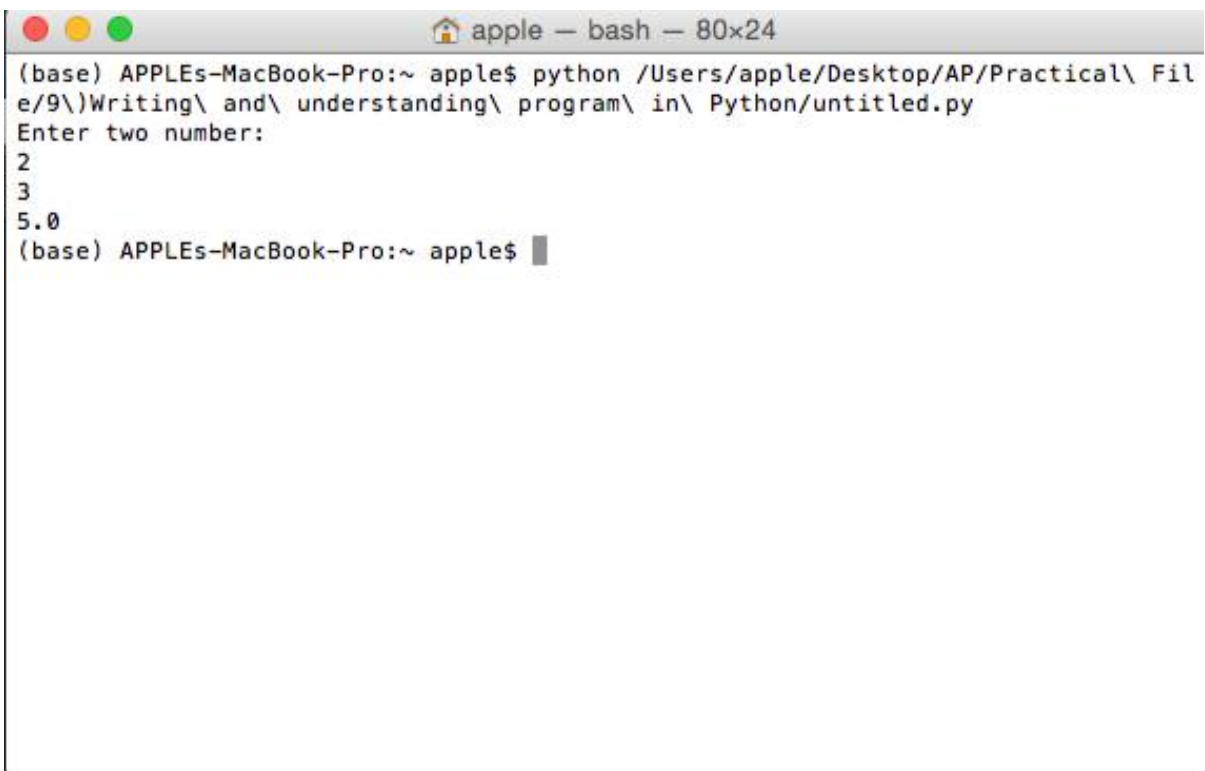
Label: ☐ Let every user access this bookmark

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:



The screenshot shows a terminal window titled 'apple — bash — 80x24'. The prompt is '(base) APPLEs-MacBook-Pro:~ apple\$'. The user has run the command 'python /Users/apple/Desktop/AP/Practical\ File/9\Writing\ and\ understanding\ program\ in\ Python/untitled.py'. The program prompts 'Enter two number:' and the user enters '2' and '3' on separate lines. The program then outputs '5.0'. The prompt returns to '(base) APPLEs-MacBook-Pro:~ apple\$'.

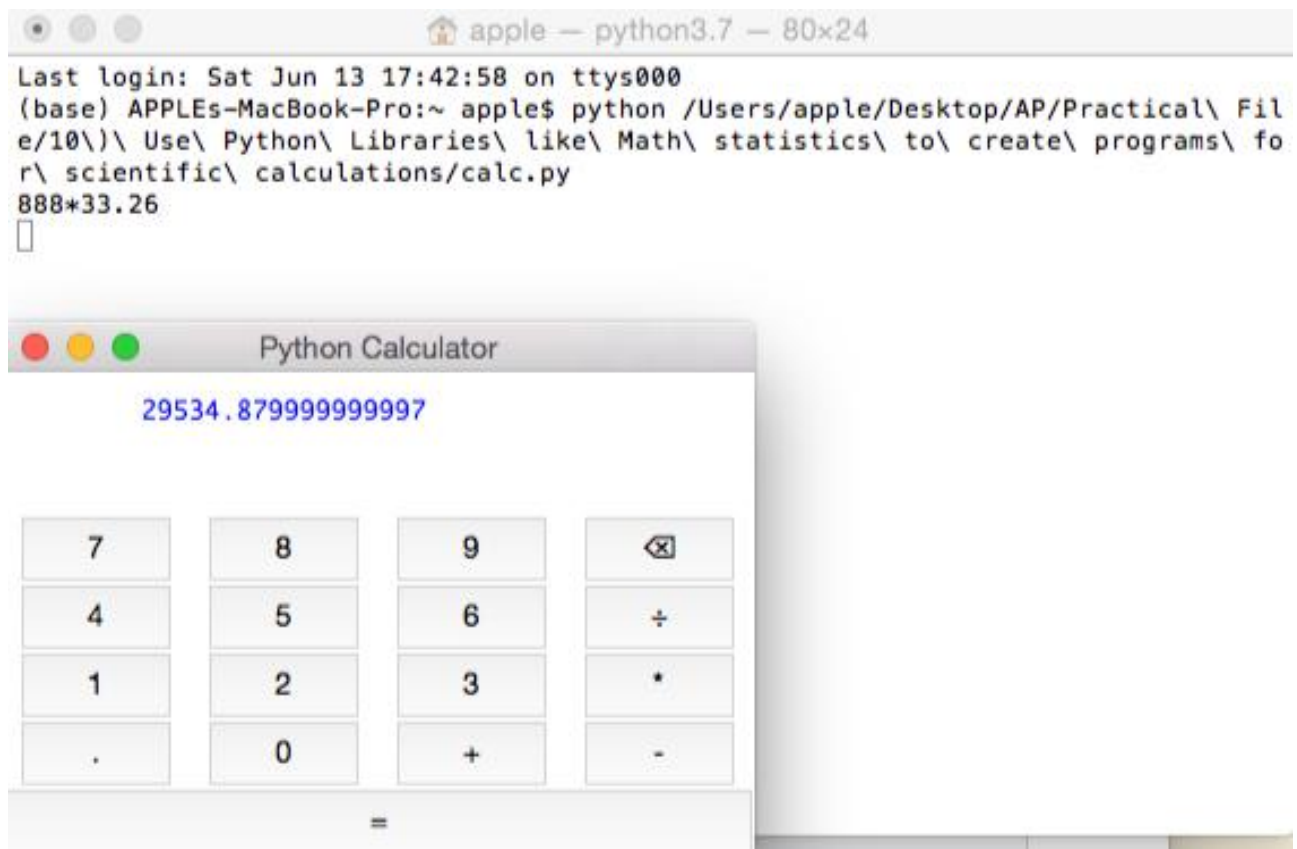
```
(base) APPLEs-MacBook-Pro:~ apple$ python /Users/apple/Desktop/AP/Practical\ File/9\Writing\ and\ understanding\ program\ in\ Python/untitled.py  
Enter two number:  
2  
3  
5.0  
(base) APPLEs-MacBook-Pro:~ apple$
```

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

Code:

```
from tkinter import *
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:



The image shows two overlapping windows from a macOS environment. The top window is a terminal titled 'apple — python3.7 — 80x24'. It displays the following text: 'Last login: Sat Jun 13 17:42:58 on ttys000', '(base) APPLEs-MacBook-Pro:~ apple\$ python /Users/apple/Desktop/AP/Practical\ File/10\\)\ Use\ Python\ Libraries\ like\ Math\ statistics\ to\ create\ programs\ for\ scientific\ calculations\calc.py', and the result '888*33.26' followed by a cursor. The bottom window is titled 'Python Calculator' and shows the result '29534.879999999997' in blue text. Below the display is a numeric keypad with buttons for digits 0-9, a decimal point, and arithmetic operators (+, -, *, ÷). There is also a clear button (X) and an equals button (=) at the bottom.

```
apple — python3.7 — 80x24
Last login: Sat Jun 13 17:42:58 on ttys000
(base) APPLEs-MacBook-Pro:~ apple$ python /Users/apple/Desktop/AP/Practical\ File/10\\)\ Use\ Python\ Libraries\ like\ Math\ statistics\ to\ create\ programs\ for\ scientific\ calculations\calc.py
888*33.26
█

Python Calculator
29534.879999999997

7 8 9 ✕
4 5 6 ÷
1 2 3 *
. 0 + -
=
```