

**Assignment -1**  
Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

**Question-1:**

Create a registration page in html with username, email and phone number and by using post method display it in next html page.

**register.html**

```
<html>

<head>

    <title>Registration page</title>

    <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">

</head>

<body>

    <div class="center"> <br /><br />

    <form action="/register" method="POST">

        <h1>Register</h1> <br /><br />

        <p> Enter username:</p>

        <input type="text" name= "username" />

        <p> Enter email:</p>

        <input type="email" name="email"/>

        <p> Enter Phone number:</p>

        <input type="text" name="phone"/>

        <br><br><br>

        <input type="submit" value="submit" />

    </form>

    </div>

</body>

</html>
```

### **register.css**

```
.center{  
margin: auto;  
width: 10%;  
}  
  
h1{  
text-align:center;  
}  
  
input{  
border-radius:5px;  
padding:7px;  
}
```

### **home.html**

```
<html>  
<head>  
    <title>Home</title>  
</head>  
<body style="text-align:center">  
    <h2>Welcome {{username}} </h2><br/><br/>  
    <b>Username</b> - {{username}}<br/><br/>  
    <b>Email Address</b> - {{email}}<br/><br/>  
    <b>Phone number</b> - {{phone}}<br/><br/>  
</body>  
</html>
```

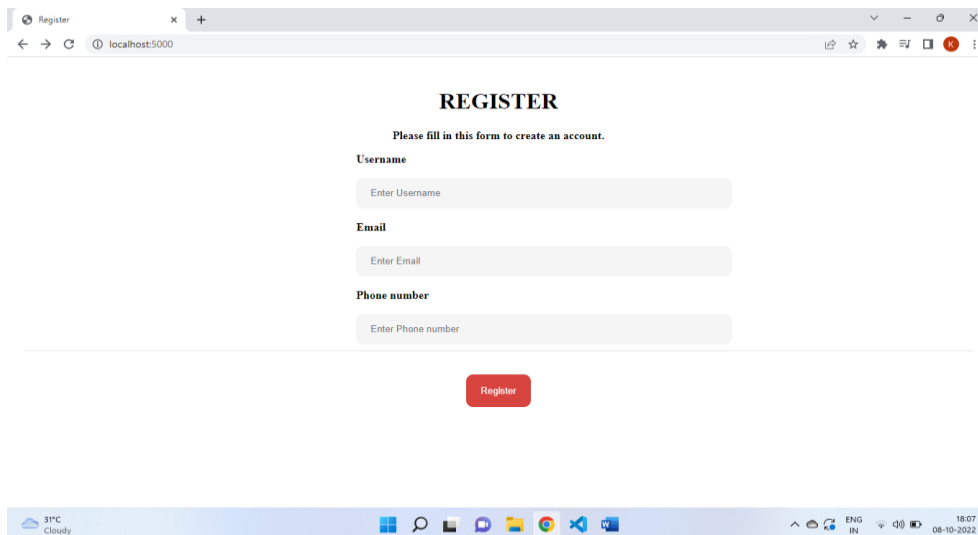
### **Register.py**

```
from flask import Flask,render_template,request  
app=Flask(__name__)  
@app.route("/")  
def home():  
    return render_template("register.html")  
@app.route("/register",methods=["POST","GET"])
```

```
def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phone=request.form.get('phone')
        return render_template("home.html",username=username,email=email,phone=phone)

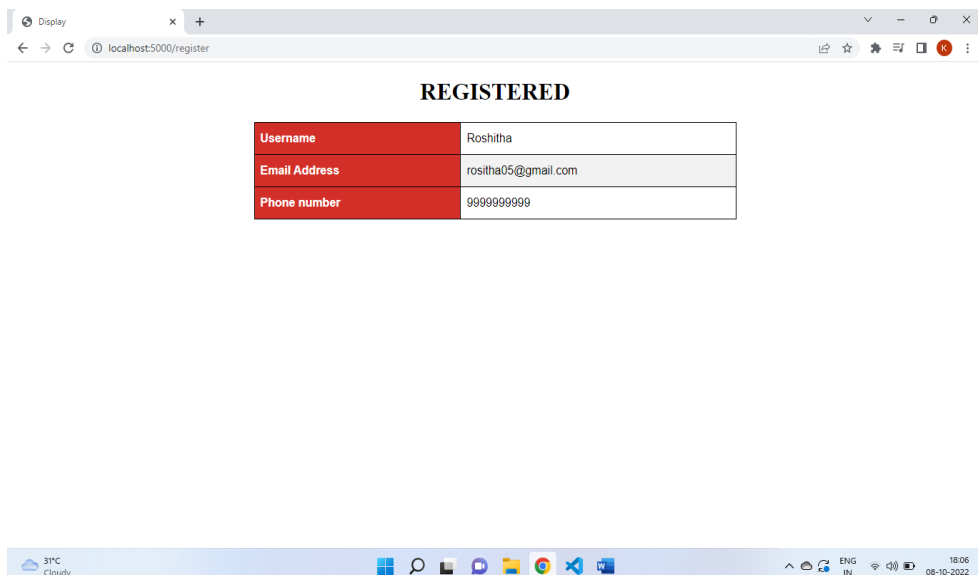
if __name__ == '__main__':
    app.run(debug=True)
```

## Output:



The screenshot shows a web browser window with the title 'Register' and the address 'localhost:5000'. The page displays a registration form with the following elements:

- REGISTER** (Section Header)
- Please fill in this form to create an account.
- Username** (Label) with an input field containing the placeholder text 'Enter Username'.
- Email** (Label) with an input field containing the placeholder text 'Enter Email'.
- Phone number** (Label) with an input field containing the placeholder text 'Enter Phone number'.
- A red **Register** button.



The screenshot shows a web browser window with the title 'Display' and the address 'localhost:5000/register'. The page displays a confirmation message 'REGISTERED' and a table with the following data:

Username	Roshitha
Email Address	rositha05@gmail.com
Phone number	9999999999

## Question-2:

Develop a flask program which should contain at least 5 packages used from pypi.org.

### Packages used:

1. render\_template
2. url\_for
3. redirect
4. request
5. abort

### Program :

#### python\_packages.py

```
from flask import Flask,render_template,request,redirect,url_for,abort
```

```
app=Flask(__name__)
```

```
@app.route("/")
```

```
def home():
```

```
    return render_template("register.html")
```

```
@app.route("/register",methods=["POST","GET"])
```

```
def register():
```

```
    if request.method=="POST":
```

```
        username=request.form.get('username')
```

```
        email=request.form.get('email')
```

```
        phone=request.form.get('phone')
```

```
        if username=="admin":
```

```
            return redirect(url_for("admin_page"))
```

```
        return render_template("home.html",username=username,email=email,phone=phone)
```

```
@app.route("/admin")
```

```
def admin_page():
```

```
    return render_template("admin.html")
```

```

@app.route("/validate",methods=["POST","GET"])
def validate_admin():
    if request.method=="POST":
        password=request.form.get('password')
        if(password=="abcd"):
            return render_template("admindashboard.html")
        else:
            abort(403)

if __name__ == '__main__':
    app.run(debug=True)

```

### register.html

```

<html>
<head>
    <title>Registration page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
</head>
<body>
    <div class="center"> <br /><br />
    <form action="/register" method="POST">
        <h1>Register</h1> <br /><br />
        <p> Enter username:</p>
        <input type="text" name= "username" />
        <p> Enter email:</p>
        <input type="email" name="email"/>
        <p> Enter Phone number:</p>
        <input type="text" name="phone"/>
        </br></br></br>
        <input type="submit" value="submit" />
    </form>
</body>
</html>

```

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

### **home.html**

```
<!DOCTYPE html>
<html>
<head>
    <title>Home</title>
</head>
<body style="text-align:center">
    <h2>Welcome {{username}} </h2><br/><br/>
    <b>Username</b> - {{username}}<br/><br/>
    <b>Email Address</b> - {{email}}<br/><br/>
    <b>Phone number</b> - {{phone}}<br/><br/>
</body>
</html>
```

### **admin.html**

```
<html>
<head>
    <title>Admin Login</title>
    <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
</head>
<body>
    <div class="center"> <br /><br />
    <form action="/validate" method="POST">
        <h2 style="text-align:center">Admin login</h2> <br /><br />

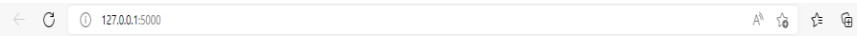
        <p> Enter password:</p>
        <input type="text" name="password"/>
        <br><br><br>
```

```
        <input type="submit" value="submit" />
    </form>
</div>
</body>
</html>
```

#### **admindashboard.html**

```
<html>
<head>
    <title>Admin</title>
</head>
<body>
    <h2 style="text-align:center">Welcome Administartor </h2><br/><br/>
    <p><b>Who is an administrator?</b></p></br>
    <p>Web administrators design, develop, maintain and troubleshoot websites. Most importantly,
they ensure a safe and efficient user experience. This may include implementing security protocols,
modifying programs, creating backups, resolving software problems, updating content and more.
They may work with many clients or for one organization to design, program and monitor
websites.Specific responsibilities include:</p>
    <ul>
        <li>Coding websites – the most popular languages include HTML and JavaScript</li>
        <li>Collaborating with development teams to program websites</li>
        <li>Setting up tools to monitor website traffic</li>
        <li>Analyzing website traffic to inform design decisions</li>
    </ul>
</body>
</html>
```

Output:



Register

Enter username:

Enter email:

Enter Phone number:


Admin login

Enter password:





**Welcome Administartor**

**Hi administrator**