#### Assignment -1

#### **Python Programming**

Assignment Date	19 September 2022
Student Name	Keerthika.R
Student Roll Number	311519205032
Maximum Marks	2 Marks

#### Question-1:

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

## **SOLUTION:**

#### app.py

```
from flask import Flask,render_template,request

app=Flask(__name__)

@app.route("/")
def home():
    return render_template("reg.html")

@app.route("/register",methods=["POST","GET"])
def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phonenumber=request.form.get('phonenumber')
        return

render_template("result.html",username=username,email=email,phonenumber)

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

## reg.html

```
<h1>Register</h1>
          <center><b>Please fill in this form to create an
account.</b></center>
          <label class="form_label"for="email"><b>Username</b></label>
          <br><br><br>>
          <input class="form_input"type="text" name="username"placeholder="Enter</pre>
Username" name="username" id="username" required>
          <br><br><br>>
          <label class="form_label"for="email"><b>Email</b></label>
          <br><br><br>>
          <input class="form_input"type="text" name="email"placeholder="Enter</pre>
Email" name="email" id="email" required>
          <br><br><br>>
          <label class="form_label"for="psw-repeat"><b>Phone number</b></label>
          <br><br><br>>
          <input class="form_input"type="number"</pre>
name="phonenumber"placeholder="Enter Phone number" name="psw-repeat" id="psw-
repeat" required>
          <hr>>
          <center><button type="submit"</pre>
class="submitbtn">Register</button></center>
        </div>
      </form>
</body>
</html>
```

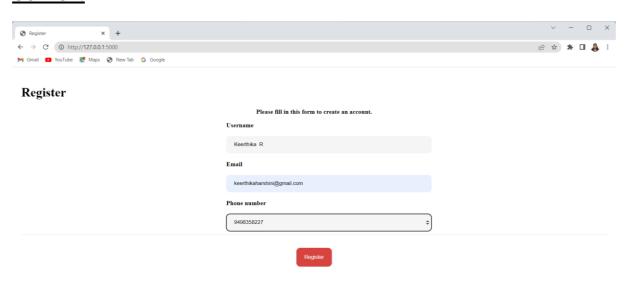
#### **Result.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Display</title>
   <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
   <h1>Output</h1>
   <center>
      Username
         {{username}}
      Email Address
         {{email}}
      Phone number
```

```
{{phonenumber}}
        </center>
</body>
</html>
Style.html
/* Add padding to containers */
.container
 padding: 16px;
 background-color: white;
/* Overwrite default styles of hr */
hr
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
/* Set a style for the submit button */
.submitbtn
   background-color: rgb(211, 47, 41);
   color: white;
   padding: 16px 20px;
   margin: 8px 0;
   border: none;
   cursor: pointer;
   opacity: 0.9;
   border-radius: 10px;
}
  .submitbtn:hover {
   opacity: 1;
 /* Add a blue text color to links */
 a {
   color: dodgerblue;
  }
.form_label
 margin-left: 35%;
.form_input
 margin-left: 35%;
 width: 500px;
  height: 42px;
  padding-left: 20px;
```

```
border-radius: 10px;
  border: none;
  background-color: whitesmoke;
}
#output {
 font-family: Arial, Helvetica, sans-serif;
  border-collapse: collapse;
 width: 50%;
}
#output td, #output th {
 border: 1px solid black;
 padding: 8px;
}
#output tr:nth-child(even){background-color: #f2f2f2;}
#output tr:hover {background-color: #ddd;}
#output th {
 padding-top: 12px;
 padding-bottom: 12px;
 text-align: left;
 background-color: rgb(211, 47, 41);
  color: white;
}
```

## **OUTPUT:**







#### Question-2:

Develop a flask program which should contain at least 5 packages used from <a href="pypi.org">pypi.org</a>

Solution:

## 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)
reg.html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
    <form action="/register" method="POST" autocomplete="off">
        <div class="container">
          <h1>Register</h1>
          <center><b>Please fill in this form to create an
account.</b></center>
          <label class="form_label"for="email"><b>Username</b></label>
          <br><br><br>>
          <input class="form input"type="text" name="username"placeholder="Enter</pre>
Username" name="username" id="username" required>
          <br><br><br>>
          <label class="form_label"for="email"><b>Email</b></label>
          <input class="form_input"type="text" name="email"placeholder="Enter</pre>
Email" name="email" id="email" required>
          <label class="form_label"for="psw-repeat"><b>Phone number</b></label>
          <br><br><br>>
          <input class="form_input"type="number"</pre>
name="phonenumber"placeholder="Enter Phone number" name="psw-repeat" id="psw-
repeat" required>
```

<hr>>

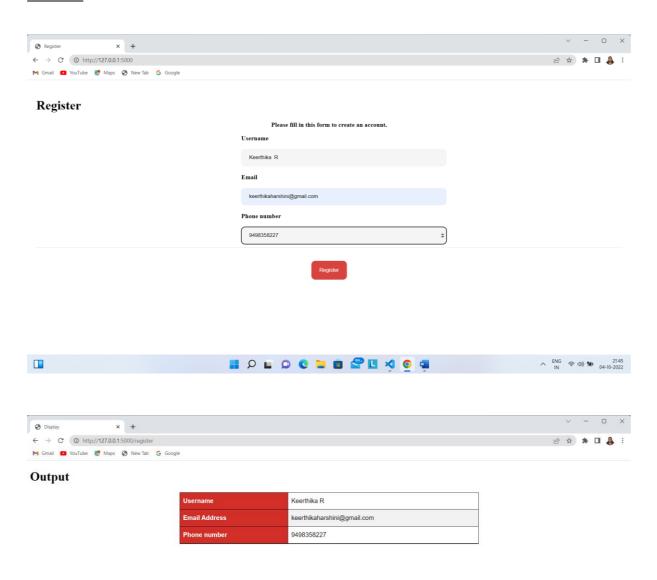
## **Result.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Display</title>
   <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
   <h1>Output</h1>
   <center>
       Username
          {{username}}
       Email Address
          {{email}}
       Phone number
          {{phonenumber}}
       </center>
</body>
</html>
Style.html
/* Add padding to containers */
.container
 padding: 16px;
 background-color: white;
}
/* Overwrite default styles of hr */
hr
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
```

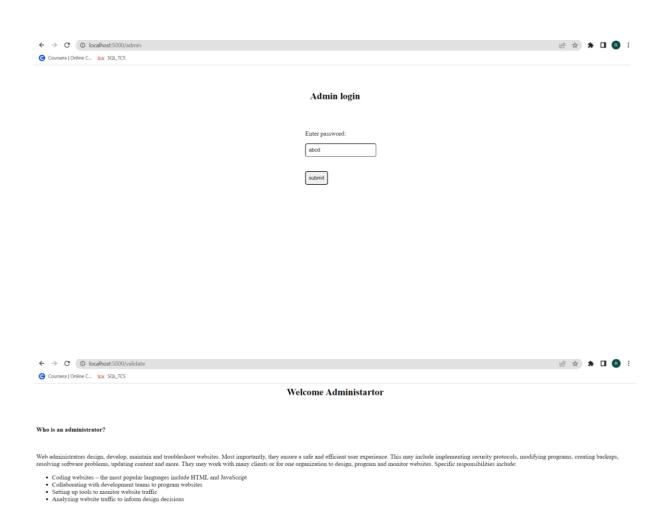
```
}
/* Set a style for the submit button */
.submitbtn
{
    background-color: rgb(211, 47, 41);
    color: white;
    padding: 16px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    opacity: 0.9;
    border-radius: 10px;
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.form_label
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 width: 500px;
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}
#output {
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  padding: 8px;
}
#output tr:nth-child(even){background-color: #f2f2f2;}
#output tr:hover {background-color: #ddd;}
```

```
#output th {
  padding-top: 12px;
  padding-bottom: 12px;
  text-align: left;
  background-color: rgb(211, 47, 41);
  color: white;
}
admin.html
<html>
  <head>
    <title>Admin Login</title>
    k 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 />
      Enter password:
      <input type="text" name="password"/>
      </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 Administrator </h2><br/>
   <b>Who is an administrator?</b></br>
    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:
    Coding websites – the most popular languages include HTML and JavaScript
    Collaborating with development teams to program websites
    Setting up tools to monitor website traffic
    Analyzing website traffic to inform design decisions
    </body>
</html>
```

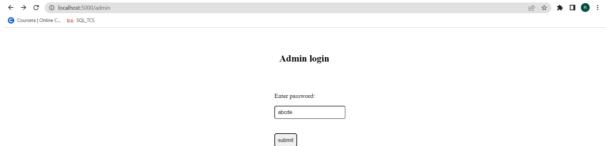
# **OUTPUT:**













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