

**Assignment -1**  
Python Programming

Assignment Date	28 Oct 2022
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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:**

```
<html>
```

```
<head>
```

```
<script>
```

```
function Validation() {
```

```
    var name = document.forms.RegForm.Name.value; var
```

```
    email  = document.forms.RegForm.EMail.value; var
```

```
    phone = document.forms.RegForm.Telephone.value; var
```

```
regEmail=/^\w+([\.-]?\w+)*@\w+([\.-
```

```
]?\w+)*(\.\w{2,3})+$/g; var regPhone=/^\d{10}$/;
```

```
var regName = /\d+$/g;
```

```
if (name == "" || regName.test(name)) {
```

```
    window.alert("Please enter your name properly."); name.focus();
```

```
    return false;
```

```
}
```

```
if (email == "" || !regEmail.test(email)) {
```

```
    window.alert("Please enter a valid e-mail address.");
```

```
    email.focus(); return false;
```

```
} if (phone == "" || !regPhone.test(phone))
```

```
{ alert("Please enter valid phone
```

```
number."); phone.focus(); return false;
```

```
}
```

```
if (what.selectedIndex == -1) { alert("Please  
enter your course."); what.focus();  
  
return false;  
  
}
```

```
return true;
```

```
}
```

```
</script>
```

```
<style>
```

```
div {
```

```
    box-sizing: border-box;
```

```
    width: 100%; border:
```

```
    100px solid black;
```

```
    float: left; align-
```

```
    content: center;
```

```
    align-items: center;
```

```
}
```

```
form {
```

```
margin: 0 auto; width:
```

```
600px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1 style="text-align: center;">REGISTRATION FORM</h1>
```

```
<form name="RegForm" onsubmit="return Validation()" method="post">
```

```
<p>Name: <input type="text" size="65" name="Name" /></p>
```

```
<br />
```

```
<p>E-mail Address: <input type="text" size="65" name="EMail" /></p>
```

```
<br />
```

<p>Telephone: <input type="text" size="65" name="Telephone"  
/></p> <br /> <p>

## SELECT YOUR COURSE

<select type="text" value="" name="Subject">

<option>BTECH</option>

<option>BBA</option>

<option>BCA</option>

<option>B.COM</option> </select>

</p> <br />

<br />

<p>Comments: <textarea cols="55" name="Comment"> </textarea></p>

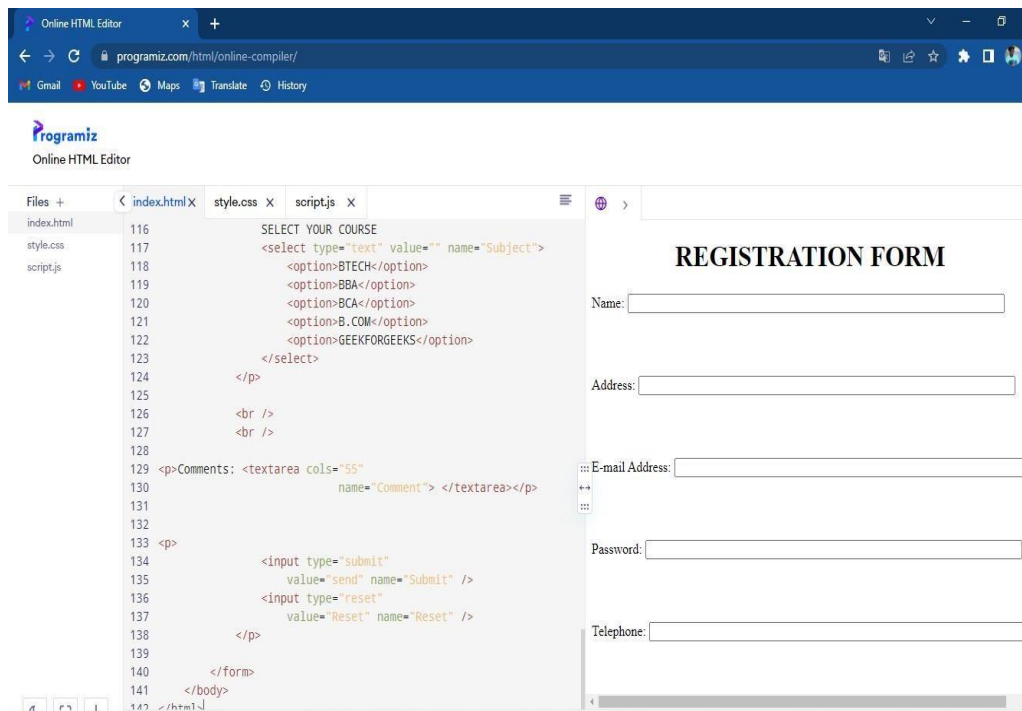
<p>

<input type="submit" value="send" name="Submit" />

<input type="reset" value="Reset" name="Reset" /> </p>

</form>

</body> </html>



## Question-2:

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

## Solution:

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
```

```
app = Flask(__name_)
app.secret_key = 'a'
```

```
conn =
```

```
ibm_db.conect("DATABASE=;HOSTNAME=;PORT=;SECURITY=SSL;SSL
ServerCertificate=;UID=;PhD=", ' ', ' ')
```

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

```

```
def home():
```

```
    return render_template('home.html')
```

```
@app.route('/Login', methods=['GET', 'POST'])

```

```
def login():
```

```
    global userid
```

```
    msg = ''
```

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

```
        username = request.form['username'] password =
```

```
request.form['password'] return render_template('home.html') sql =
```

```
"SELECT * FROM Users WHERE username=? AND password=?" stmt
```

```
= ibm_db.prepare(conn, sql) ibm_db.bind_param(stmt, 1, username)
```

```
ibm_db.bind_param(stmt, 2, password) ibm_db.execute(stmt) account =
```

```
ibm_db.fetch_assoc(stmt) print(account) if account:
```

```
    session['Loggedin'] = True session['id'] =
```

```
    account['username']          userid          =
```

```
    account['USERNAME'] session['username'] =
```

```
    account['USERNAME']
```

```
else:
```

```
    msg = 'Incorrect username/password'
```

```
    return render_template('login.html', msg=msg)
```

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

```
register():
```

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

```
        username          =
```

```
        request.form['username'] email =
```

```
        request.form['email'] password =
```

```
        request.form['password'] sql =
```

```
        "SELECT * FROM users WHERE
```

```
        username          =?"          stmt          =
```



```

ibm_db.prepare(conn,          sql)

ibm_db.bind_param(stmt,      1,
username)    ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

print(account)

if account:

    msg = "Account already exists!"

elif not re.match(r'^[a-zA-Z0-9_]+@[a-zA-Z0-9_]+\.[a-zA-Z0-9_]+$', email):

    msg = "format does not match"

elif not re.match(r'[A-Za-z0-9_]+', username):

    msg = "name must contain characters and numbers"

else:

    insert_sql = "INSERT INTO users VALUES(?, ?, ?)"

    prep_stmt    =    ibm_db.prepare(conn.insert_sql)

    ibm_db.bind_param(prepare_stmt, 1, username)

    ibm_db.bnd_param(prepare_stmt, 2, email)

    ibm_db.bind_param(prepare_stmt, 3, password)

ibm_db.execute(prepare_stmt) msg = "You have
successfully registered" elif (request.method ==
"POST"): msg == "Please fill out the form"

return render_template('register.html', msg=msg)

```

```
@app.route('/dashboard')
```

```
def dash():
```

```
    return render_template('dashboard.html')
```

```
@app.route('/apply', methods=['GET', 'POST']) def
```

```
app():
```

```
    msg = ''
```

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

```
        request.form['username']    email    =
```

```
        request.form['email']    qualification    =
```

```
        request.form['qualification']    skills    =
```

```
        request.form['skills']
```

```
        jobs = request.form['s']
```

```
        stmt = ibm_db.prepare(conn, sql)
```

```
        ibm_db.bind_param(stmt, 1, username)
```

```
        ibm_db.execute(stmt)    account    =
```

```
        ibm_db.fetch_assoc(stmt)
```

```
        print(account)
```

```
        if account():
msg = "there is only 1 job position"
return render_template('apply.html', msg=msg)
```

```
insert_sql = "INSERT INTO job VALUES(?, ?, ?, ?, ?)"

prep_stmt    =    ibm_db.prepare(conn,    insert_sql)

ibm_db.bind_param(prepare_stmt, 1, username)

ibm_db.bind_param(prepare_stmt, 2, email)

ibm_db.bind_param(prepare_stmt, 3, qualification)

ibm_db.bind_param(prepare_stmt, 4, skills)

ibm_db.bind_param(prepare_stmt, 5, jobs)

ibm_db.execute(prepare_stmt) msg = "You
have successfully applie for job"

session['Loggedin'] = True

TEXT = "Hello user,a new application for job position" + job + isrequested

"
```

```
elif request.method == "POST" msg = "Please fill
out          the          form"          return
```

```
render_template('register.html',      msg=msg)

@app.route('/display') def display():

print

session["username"], session['id'] cursor = mysql.connection.cursor()

cursor.execute('SELECT*FROM job WHERE userid=%s', (sessio['id'],))

account = cursor.fetchone() print("accountdisplay", account)
```