

**Assignment -1**  
**Python Programming**

|                 |                  |
|-----------------|------------------|
| Assignment Date | 28 Oct 2022      |
| Student Name    | Karan R          |
| Team ID         | PNT2022TMID31186 |
| 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>

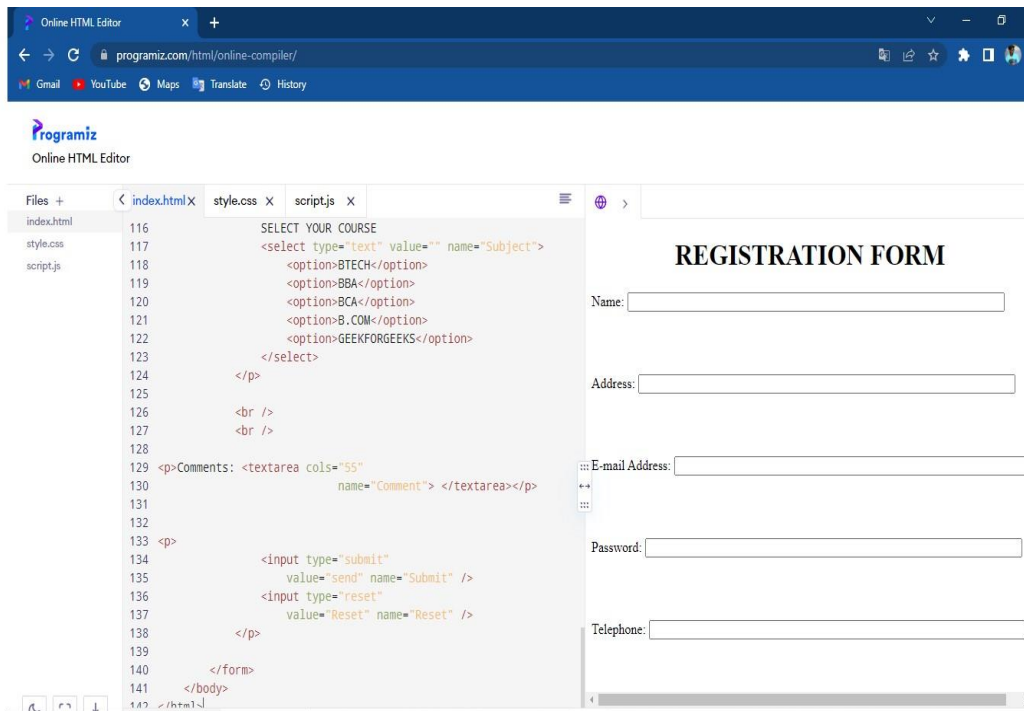
<p>

<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'] =
    acccount['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'^[@]+\.[^@]+', 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 applied 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', (session['id'],))    account = cursor.fetchone()
print("accountdisplay", account)

```

