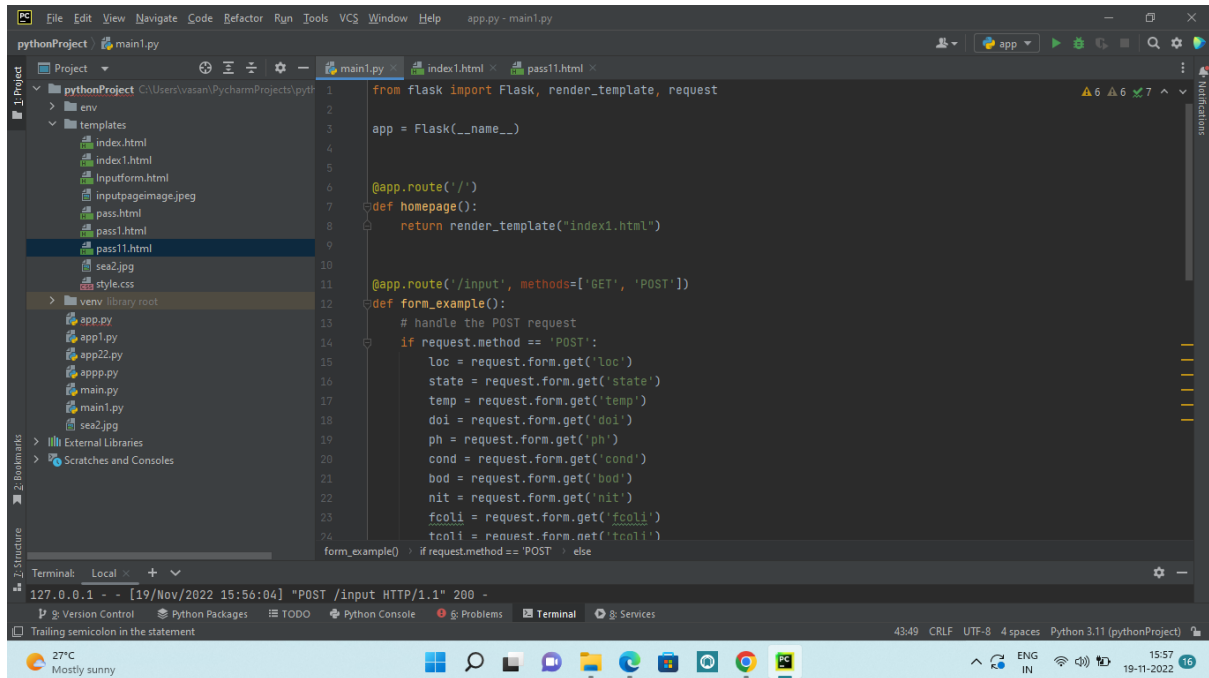


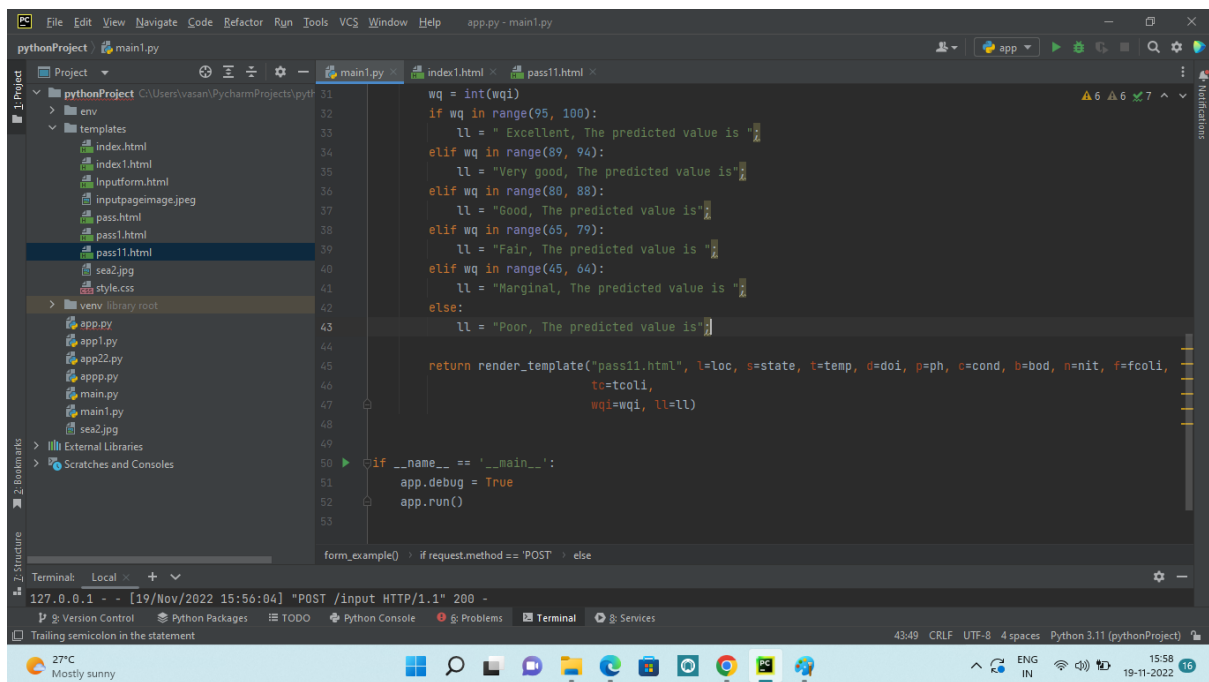
FLASK APP



```
1 from flask import Flask, render_template, request
2
3 app = Flask(__name__)
4
5
6 @app.route('/')
7 def homepage():
8     return render_template("index1.html")
9
10
11 @app.route('/input', methods=['GET', 'POST'])
12 def form_example():
13     # handle the POST request
14     if request.method == 'POST':
15         loc = request.form.get('loc')
16         state = request.form.get('state')
17         temp = request.form.get('temp')
18         doi = request.form.get('doi')
19         ph = request.form.get('ph')
20         cond = request.form.get('cond')
21         bod = request.form.get('bod')
22         nit = request.form.get('nit')
23         fcoli = request.form.get('fcoli')
24         tcoli = request.form.get('tcoli')
25         if request.method == 'POST': else
```

Terminal: Local x +

127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -



```
31 wq = int(wq1)
32 if wq in range(95, 100):
33     ll = "Excellent, The predicted value is"
34 elif wq in range(89, 94):
35     ll = "Very good, The predicted value is"
36 elif wq in range(80, 88):
37     ll = "Good, The predicted value is"
38 elif wq in range(65, 79):
39     ll = "Fair, The predicted value is"
40 elif wq in range(45, 64):
41     ll = "Marginal, The predicted value is"
42 else:
43     ll = "Poor, The predicted value is"
44
45 return render_template("pass11.html", l=loc, s=state, t=temp, d=doi, p=ph, c=cond, b=bod, n=nit, f=fcoli,
46                        tc=tcoli,
47                        wq1=wq1, ll=ll)
48
49 if __name__ == '__main__':
50     app.debug = True
51     app.run()
52
53 form_example() > if request.method == 'POST' > else
```

Terminal: Local x +

127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -

```
pythonProject | templates | pass11.html
main1.py | index1.html | pass11.html
<h1>TEMPERATURE = {{t}}</h1>
<h1>D.O = {{d}}</h1>
<h1>pH = {{p}}</h1>
<h1>CONDUCTIVITY = {{c}}</h1>
<h1>B.O.D = {{b}}</h1>
<h1>NITRATENANN = {{n}}</h1>
<h1>FECALCOLIFORM = {{f}}</h1>
<h1 onclick="funcdig()">TOTALCOLIFORM = {{tc}}</h1>
<h1 id="l1"> </h1>

Terminal: Local
127.0.0.1 - - [19/Nov/2022 15:56:04] "POST /input HTTP/1.1" 200 -
PS C:\Users\vasan\PycharmProjects\pythonProject> python main1.py
* Serving Flask app 'main1'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 363-249-780
```

OUTPUT

TEST CASE-I

127.0.0.1:5000

127.0.0.1:5000

WATER PARAMETER VALUES

Location: VIRUDHUNAGAR

State: TAMILNADU

Temperature: 30.6

D.O(mg/L): 6.9

pH: 7.0

Conductivity: 230.0

B.O.D: 0

Nitrate(mM)+Nitrite(mnng/l): 0.1

Fecal coliform(MPN/100ml): 11

Total coliform(MPN/100ml): 12

submit

LOCATION = VIRUDHUNAGAR
STATE = TAMILNADU
TEMPERATURE = 30.6
D.O = 6.7
pH = 7.5
CONDUCTIVITY = 230.0
B.O.D = 0
NITRATENANN = 0.1
FECALCOLIFORM = 11
TOTALCOLIFORM = 12
Fair, The predicted value is 68.74020000000002

TEST CASE-II

WATER PARAMETER VALUES

Location: VIRUDHUNAGAR
State: TAMILNADU
Temperature: 30.6
D.O(mg/l): 5.9
pH: 8.0
Conductivity: 400
B.O.D: 10
Nitrate+nitrite+nitrann(mg/l): 70
Fecal coliform(MPN/100ml): 7.5
Total coliform(MPN/100ml): 12
submit

