Team ID	PNT2022TMID15657
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning

Python code

```python
import numpy as np
from flask import Flask, render_template, request
import pickle
app = Flask(__name__)
model = pickle.load(open('wqi.pkl','rb'))
@app.route('/')
def home():
    return render_template("web.html")
@app.route('/login' ,methods = ['POST'])
def login():
    year = request.form["year"]
    do = request.form["do"]
    ph = request.form["ph"]
    co = request.form["co"]
    bod = request.form["bod"]
    na = request.form["na"]
    tc = request.form["tc"]
```

```python
total = [[float(year),float (do), float (ph), float (co), float (bod), float (na), float(tc)]]
    y_pred = model.predict(total)
    y_pred = y_pred[[0]]
    if(y_pred >= 95 and y_pred<= 100) :
        return render_template("web.html", showcase = 'Excellent, The
predicted value is '+str(y_pred))
    elif(y_pred >= 89 and y_pred <= 94) :
        return render_template("web.html", showcase = 'Very good, The
predicted value is '+str(y_pred))
    elif(y_pred >= 80 and y_pred <= 88) :
        return render_template("web.html", showcase = 'Good, The predicted
value is '+str(y_pred))
    elif(y_pred >= 65 and y_pred <= 79) :
        return render_template("web.html", showcase = 'Fair, The predicted
value is '+str(y_pred))
    elif(y_pred >= 45 and y_pred <= 64) :
        return render_template("web.html", showcase = 'Marginal, The predicted
value is '+str(y_pred))
    else :
```

```python
        return render_template("web.html", showcase = 'Poor, The predicted
value is '+str(y_pred))
if __name__=='__main__' :
    app.run(debug = True,port=8000)
```