Team ID	PNT2022TMID51603
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning

Water Quality Index calculation:

```
Water Quality Index (WQI) Calculation
        a)calculation of pH
In [346]: data['nph']=data.ph.apply(lambda x:(100 if (8.5>=x>=7) else(80 if (8.6>=x>=8.5) or (6.9>=x>=6.8) else(60 if (8.8>=x>=8.6) or (6.8>=x>=6.7) else(40 if (9>=x>=8.8) or (6.7>=x>=6.5)
                                         else 0)))))
        b)calculation of dissolved oxygen
c)calculation of total coliform
d)calculation of B.D.O
```