

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

Water Quality Index Calculation 2

e) calculation of electric conductivity

```
In [350]: data['nec']=data.co.apply(lambda x:(100 if (75>=x)>=0)
                                     else(80 if (150>=x)>=75)
                                     else(60 if (225>=x)>=150)
                                     else(40 if (300>=x)>=225)
                                     else 0))))
```

f) calculation of nitrate

```
In [351]: data['nna']=data.na.apply(lambda x:(100 if (20>=x)>=0)
                                     else(80 if (50>=x)>=20)
                                     else(60 if (100>=x)>=50)
                                     else(40 if (200>=x)>=100)
                                     else 0))))
```