Team ID	PNT2022TMID16161
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)))))
```