



## Water Quality Index (WQI) Calculation-2

```
In [54]: #calculation of total coliform
data['nco']=data.tc.apply(lambda x: (100 if(5>=x>=0)
                                   else(80 if(50>=x>=5)
                                   else (60 if(500>=x>=50)
                                   else(40 if(10000>=x>=500)
                                   else 0))))))
```

```
In [55]: #calculation of B.D.O
data['nbdo']=data.bod.apply(lambda x:(100 if(3>=x>=0)
                                else(80 if(6>=x>=3)
                                else (60 if(80>=x>=6)
                                else(40 if(125>=x>=80)
                                else 0))))))
```