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

Handling missing values 2

```
In [11]: data.dtypes
```

```
Out[11]: STATION CODE                        object
         LOCATIONS                           object
         STATE                               object
         Temp                                object
         D.O. (mg/l)                         object
         PH                                  object
         CONDUCTIVITY (μmhos/cm)             object
         B.O.D. (mg/l)                       object
         NITRATENAN N+ NITRITENANN (mg/l)    object
         FECAL COLIFORM (MPN/100ml)          object
         TOTAL COLIFORM (MPN/100ml)Mean      object
         year                                 int64
         dtype: object
```

```
In [12]: data['Temp']=pd.to_numeric(data['Temp'],errors='coerce')
         data['D.O. (mg/l)']=pd.to_numeric(data['D.O. (mg/l)'],errors='coerce')
         data['PH']=pd.to_numeric(data['PH'],errors='coerce')
         data['B.O.D. (mg/l)']=pd.to_numeric(data['B.O.D. (mg/l)'],errors='coerce')
         data['CONDUCTIVITY (μmhos/cm)']=pd.to_numeric(data['CONDUCTIVITY (μmhos/cm)'],errors='coerce')
         data['NITRATENAN N+ NITRITENANN (mg/l)']=pd.to_numeric(data['NITRATENAN N+ NITRITENANN (mg/l)'],errors=
         data['TOTAL COLIFORM (MPN/100ml)Mean']=pd.to_numeric(data['TOTAL COLIFORM (MPN/100ml)Mean'],errors='co
         data.dtypes
```

```
Out[12]: STATION CODE                        object
         LOCATIONS                           object
         STATE                               object
         Temp                               float64
         D.O. (mg/l)                        float64
         PH                                 float64
         CONDUCTIVITY (μmhos/cm)            float64
         B.O.D. (mg/l)                      float64
         NITRATENAN N+ NITRITENANN (mg/l)   float64
         FECAL COLIFORM (MPN/100ml)          object
         TOTAL COLIFORM (MPN/100ml)Mean     float64
         year                                 int64
         dtype: object
```

```
In [13]: data.isnull().sum()
```

```
Out[13]: STATION CODE                          0
         LOCATIONS                             0
         STATE                                 0
         Temp                                 92
         D.O. (mg/l)                          31
         PH                                    8
         CONDUCTIVITY (μmhos/cm)              25
         B.O.D. (mg/l)                        43
         NITRATENAN N+ NITRITENANN (mg/l)    225
         FECAL COLIFORM (MPN/100ml)            0
         TOTAL COLIFORM (MPN/100ml)Mean      132
         year                                  0
```