Team ID	PNT2022TMID16161
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='coe
         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
```