Team ID	PNT2022TMID15632
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/1)                           object
         PH                                    object
         CONDUCTIVITY (μmhos/cm)               object
         B.O.D. (mg/1)                         object
         NITRATENAN N+ NITRITENANN (mg/1)      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/1)']=pd.to_numeric(data['D.O. (mg/1)'],errors='coerce')
         data['PH']=pd.to_numeric(data['PH'],errors='coerce')
         data['B.O.D. (mg/1)']=pd.to_numeric(data['B.O.D. (mg/1)'],errors='coerce')
         data['CONDUCTIVITY (μmhos/cm)']=pd.to_numeric(data['CONDUCTIVITY (μmhos/cm)'],errors='coerce')
         data['NITRATENAN N+ NITRITENANN (mg/1)']=pd.to_numeric(data['NITRATENAN N+ NITRITENANN (mg/1)'],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/1)                           float64
         PH                                    float64
         CONDUCTIVITY (μmhos/cm)               float64
         B.O.D. (mg/1)                         float64
         NITRATENAN N+ NITRITENANN (mg/1)      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/1)                            31
         PH                                      8
         CONDUCTIVITY (μmhos/cm)                25
         B.O.D. (mg/1)                          43
         NITRATENAN N+ NITRITENANN (mg/1)      225
         FECAL COLIFORM (MPN/100ml)              0
         TOTAL COLIFORM (MPN/100ml)Mean        132
         year                                    0
```