TEAM ID	PNT2022TMID16214
PROJECT NAME	Efficient Water Quality Analysis and Prediction using Machine Learning

Handling missing values 2:

```
In [10]: data.dtypes
Out[10]: STATION CODE
                                             object
                                             object
         LOCATIONS
         STATE
                                             object
                                             object
         Temp
         D.O. (mg/1)
                                             object
                                             object
         CONDUCTIVITY (µmhos/cm)
                                             object
         B.O.D. (mg/1)
                                             object
                                             object
         NITRATENAN N+ NITRITENANN (mg/l)
         FECAL COLIFORM (MPN/100ml)
                                             object
         TOTAL COLIFORM (MPN/100ml)Mean
                                             object
                                              int64
         year
         dtype: object
```

```
In [18]: data['Temp'].fillna(data['Temp'].mean(),inplace=True)

data['D.O. (mg/l)'].fillna(data['D.O. (mg/l)'].mean(),inplace=True)

data['PH'].fillna(data['PH'].mean(),inplace=True)

data['CONDUCTIVITY (µmhos/cm)'].fillna(data['CONDUCTIVITY (µmhos/cm)'].mean(),inplace=True)

data['B.O.D. (mg/l)'].fillna(data['B.O.D. (mg/l)'].mean(),inplace=True)

data['NITRATENAN N+ NITRITENANN (mg/l)'].fillna(data['NITRATENAN N+ NITRITENANN (mg/l)'].mean(),inplace=True)

data['TOTAL COLIFORM (MPN/100ml)Mean'].fillna(data['TOTAL COLIFORM (MPN/100ml)Mean'].mean(),inplace=True)
```

```
In [338]: data.dtypes
Out[338]: STATION CODE
                                             object
          LOCATIONS
                                             object
          STATE
                                             object
                                            float64
          Temp
                                            float64
          D.O. (mg/1)
                                            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
                                              int64
          dtype: object
In [340]: data.isnull().sum()
                                              0
Out[340]: STATION CODE
          LOCATIONS
                                              0
          STATE
                                              0
          Temp
                                              92
          D.O. (mg/1)
                                             31
                                              8
          CONDUCTIVITY (µmhos/cm)
                                              25
          B.O.D. (mg/1)
                                             43
          NITRATENAN N+ NITRITENANN (mg/l)
                                            225
          FECAL COLIFORM (MPN/100ml)
                                              0
          TOTAL COLIFORM (MPN/100ml)Mean
                                            132
                                                                                                                         Activate V
                                              0
          dtype: int64
                                                                                                                         Go to Setting
```