Team ID	PNT2022TMID11378
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning

ANALYSING THE DATA:

```
In [330]: data.head()
```

Out[330]:

	STATION CODE	LOCATIONS	STATE	Temp	D.O. (mg/l)	PH	CONDUCTIVITY (µmhos/cm)	B.O.D. (mg/l)	NITRATENAN N+ NITRITENANN (mg/l)	FECAL COLIFORM (MPN/100ml)	TOTAL COLIFORM (MPN/100ml)Mean	year
0	1393	DAMANGANGA AT D/S OF MADHUBAN, DAMAN	DAMAN & DIU	30.6	6.7	7.5	203	NAN	0.1	11	27	2014
1	1399	ZUARI AT D/S OF PT. WHERE KUMBARJRIA CANAL JOI...	GOA	29.8	5.7	7.2	189	2	0.2	4953	8391	2014
2	1475	ZUARI AT PANCHAWADI	GOA	29.5	6.3	6.9	179	1.7	0.1	3243	5330	2014
3	3181	RIVER ZUARI AT BORIM BRIDGE	GOA	29.7	5.8	6.9	64	3.8	0.5	5382	8443	2014
4	3182	RIVER ZUARI AT MARCAIM JETTY	GOA	29.5	5.8	7.3	83	1.9	0.4	3428	5500	2014

```
In [331]: data.describe()
```

Out[331]:

	year
count	1991.000000
mean	2010.038172
std	3.057333
min	2003.000000
25%	2008.000000
50%	2011.000000
75%	2013.000000
max	2014.000000

```
In [332]: data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1991 entries, 0 to 1990
Data columns (total 12 columns):
 #   Column                            Non-Null Count  Dtype
---  ------                            --------------  -----
 0   STATION CODE                      1991 non-null   object
 1   LOCATIONS                         1991 non-null   object
 2   STATE                             1991 non-null   object
 3   Temp                              1991 non-null   object
 4   D.O. (mg/l)                       1991 non-null   object
 5   PH                                1991 non-null   object
 6   CONDUCTIVITY (µmhos/cm)           1991 non-null   object
 7   B.O.D. (mg/l)                     1991 non-null   object
 8   NITRATENAN N+ NITRITENANN (mg/l)  1991 non-null   object
 9   FECAL COLIFORM (MPN/100ml)        1991 non-null   object
 10  TOTAL COLIFORM (MPN/100ml)Mean    1991 non-null   object
 11  year                              1991 non-null   int64
dtypes: int64(1), object(11)
memory usage: 186.8+ KB
```