

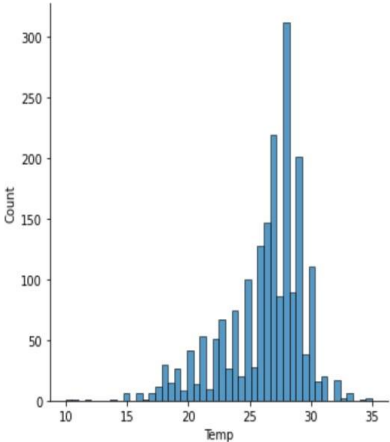
TEAM ID	PNT2022TMID52107
PROJECT NAME	Efficient Water Quality Analysis and Prediction using Machine Learning

Data visualization

univariate Analysis

a)displot

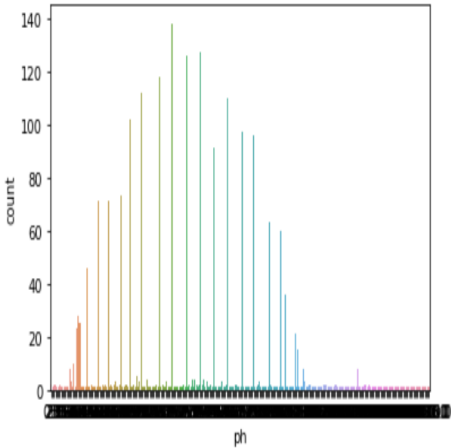
```
In [32]: sns.displot(data.Temp)
plt.show()
```



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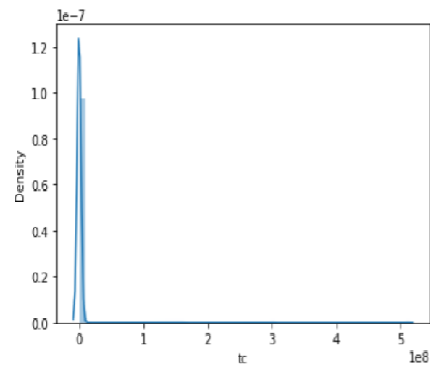
b)Countplot

```
In [37]: sns.countplot(data.ph)
plt.show()
```



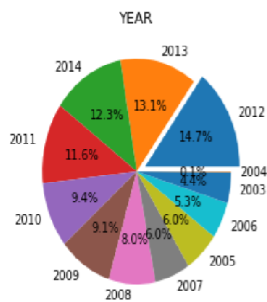
c)Distplot

```
In [42]: sns.distplot(data.tc)
plt.show()
```



d)Pie chart

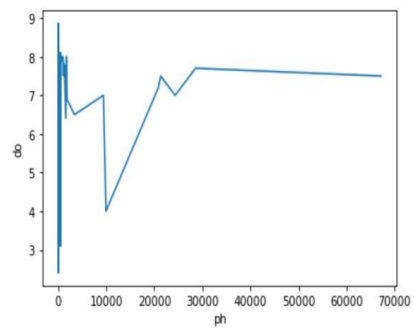
```
In [46]: plt.pie(data.year.value_counts(), [0.1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0], labels=[2012, 2013, 2014, 2011, 2010, 2009, 2008, 2007, 2005, 2006, 2003, 2004 ], autopct='%1.1f%%')
plt.title('YEAR')
plt.show()
```



Bivariate Analysis

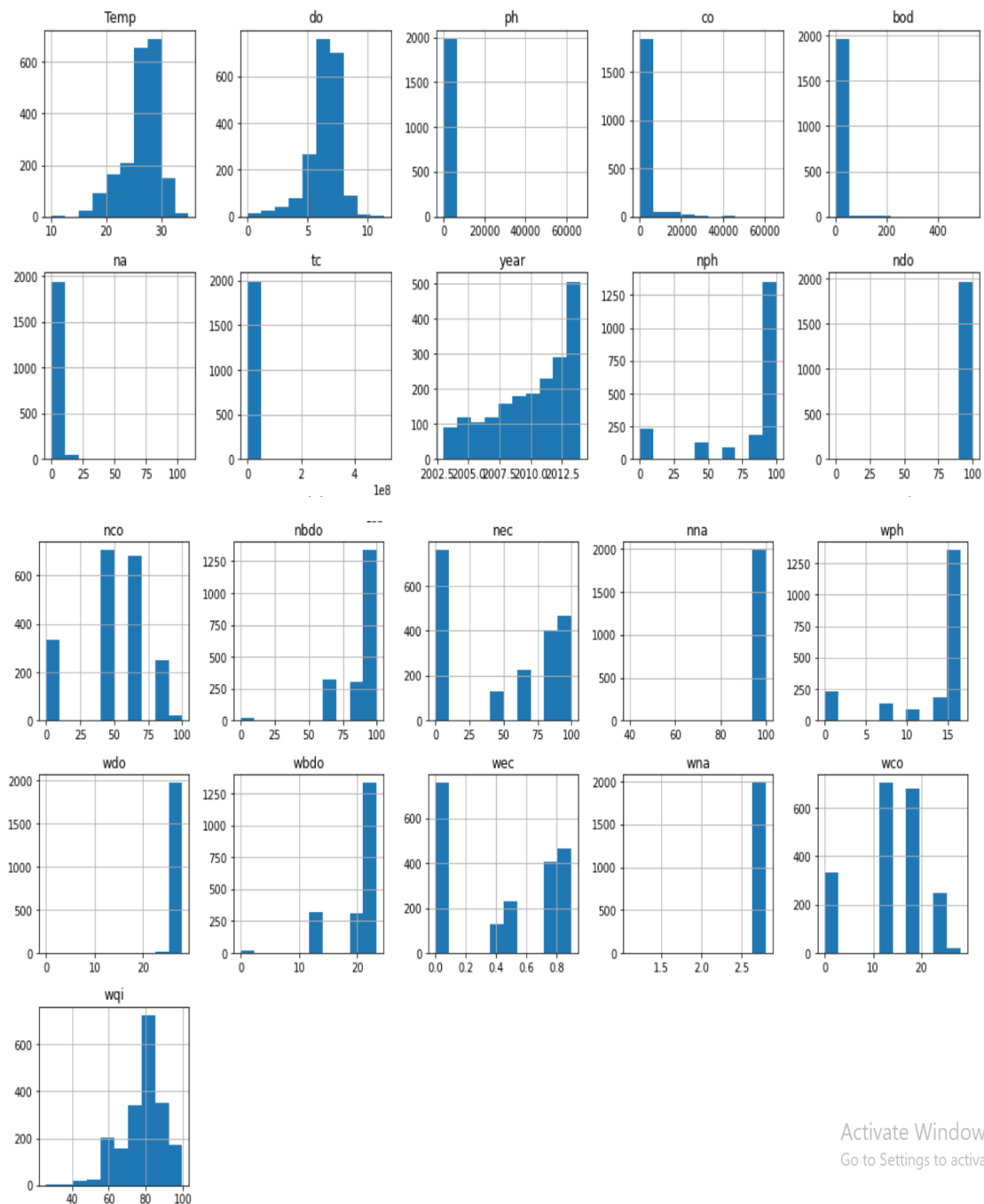
a)Line plot

```
In [51]: sns.lineplot(data.ph, data.do)
plt.show()
```



Multivariate analysis

```
In [72]: data.hist(figsize=(17,17))  
plt.show()
```



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b)Scatter plot

```
In [60]: sns.scatterplot(data.ph,data.bod)
plt.show()
```

