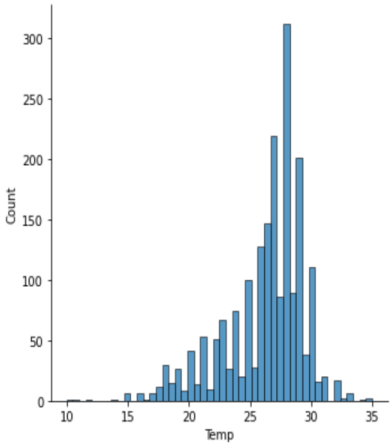
TEAM ID	PNT2022TMID16214
PROJECT NAME	Efficient Water Quality Analysis and Prediction using Machine Learning

Data visualization

univariate Analysis

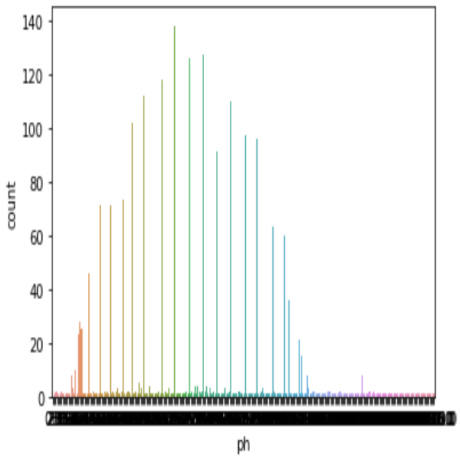
a)displot

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



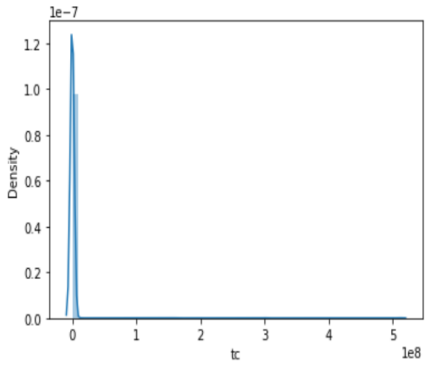
b)Countplot

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



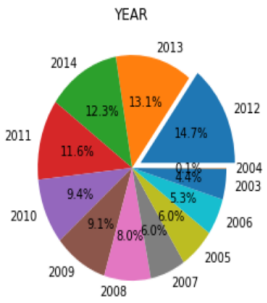
c)Distplot

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



d)Pie chart

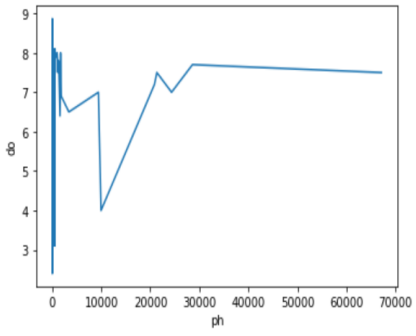
In [46]:
```
plt.pie(data.year.value_counts(),[0.1,0,0,0,0,0,0,0,0,0,0,0],labels=[2012,2013,2014,2011,2010,2009,2008,2007,2005,2006,2003,2004 ],autopct='%1.1f%%'
plt.title('YEAR')
plt.show()
```



Bivariate Analysis

a)Line plot

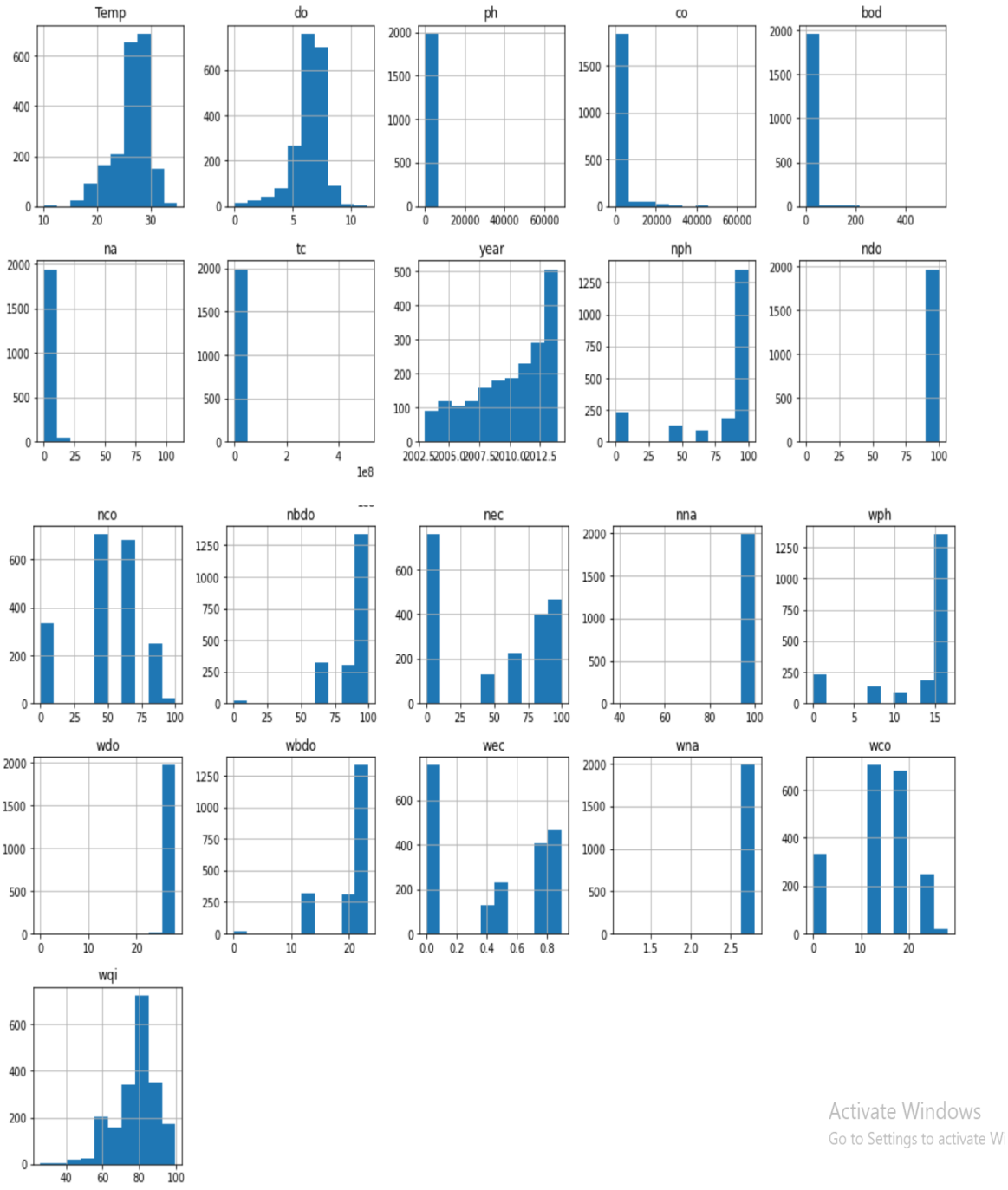
In [51]:
```
sns.lineplot(data.ph,data.do)
plt.show()
```



Multivariate analysis

In [72]:

```
data.hist(figsize=(17,17))
plt.show()
```



b)Scatter plot

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