| Team ID      | PNT2022TMID51603   |
|--------------|--|
| Project Name | Efficient Water Quality Analysis and Prediction using Machine Learning |

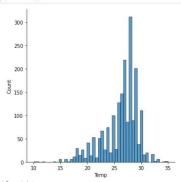
## Data Visualization

Data visualization

univariate Analysis

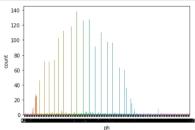
a)displot

In [355]: sns.displot(data.Temp)
plt.show()



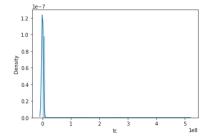
b)Countplot

In [360]: sns.countplot(data.ph)
plt.show()



c)Distplot

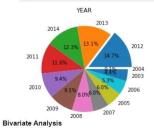
In [365]: sns.distplot(data.tc)
plt.show()



d)Pie chart

In [369]: plt.pie(data.year.value\_counts(),[0.1,0,0,0,0,0,0,0,0,0,0],labels=[2012,2013,2014,2011,2010,2009,2008,2007,2005,2006,2003,2004
plt.title('YEAR')
plt.show()

4

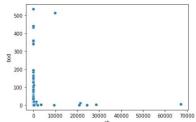


a)Line plot

In [374]: sns.lineplot(data.ph,data.do)
 plt.show()

10000 20000 30000 40000 50000 60000 70000





Multivariate analysis

## In [395]: data.hist(figsize=(17,17)) plt.show()

