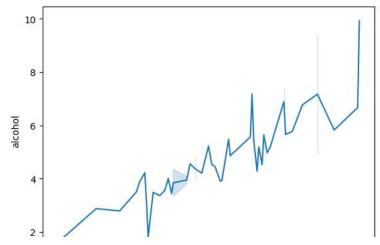
Assmnt Week-2

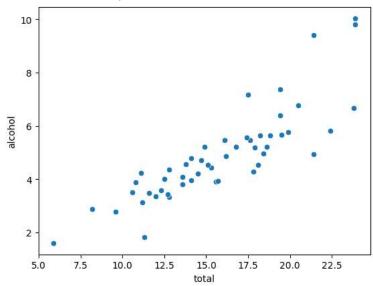
```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
sns.get_dataset_names()
[ 'anagrams',
      'anscombe',
      'attention',
      'brain_networks',
      'car_crashes',
      'diamonds',
      'dots',
      'dowjones',
      'exercise',
      'flights',
      'fmri',
      'geyser',
      'glue',
      'healthexp',
      'iris',
      'mpg',
      'penguins',
      'planets',
      'seaice',
      'taxis',
      'tips',
      'titanic']
df = sns.load_dataset('car_crashes')
df.head(5)
        total speeding alcohol not_distracted no_previous ins_premium ins_losses abbrev
                                                                                                 \blacksquare
         18.8
                  7.332
                           5.640
                                           18.048
                                                       15.040
                                                                    784.55
                                                                                145.08
                                                                                           \mathsf{AL}
                                                                                                 th
     1
         18.1
                  7.421
                           4.525
                                           16.290
                                                       17.014
                                                                   1053.48
                                                                                133.93
                                                                                           ΑK
                                           15.624
                                                       17.856
                                                                    899.47
     2
         18.6
                  6.510
                           5.208
                                                                                110.35
                                                                                           ΑZ
                           5.824
                                          21.056
                                                       21.280
                                                                    827.34
     3
         22 4
                  4.032
                                                                                142.39
                                                                                           AR
                  4.200
                                           10.920
                                                       10.680
                                                                    878.41
                                                                                165.63
     4
         12.0
                           3.360
                                                                                           CA
df.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 51 entries, 0 to 50
    Data columns (total 8 columns):
                         Non-Null Count
     # Column
                                         Dtype
     ---
                                          float64
     0 total
                          51 non-null
                          51 non-null
         speeding
                                          float64
     1
         alcohol
                          51 non-null
                                          float64
         not distracted 51 non-null
                                          float64
                          51 non-null
                                          float64
     4
         no_previous
         ins_premium
                          51 non-null
                                          float64
       ins_losses
                          51 non-null
                                          float64
         abbrev
                          51 non-null
                                          object
     dtypes: float64(7), object(1)
     memory usage: 3.3+ KB
sns.lineplot(x = 'total', y = 'alcohol', data = df)
# Inference: With this the consuption of alcohol has a direct impact on No of accidents
```

<Axes: xlabel='total', ylabel='alcohol'>



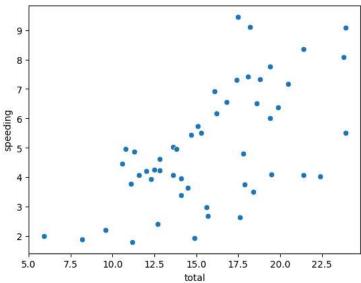
sns.scatterplot(x = 'total', y = 'alcohol', data = df) # Inference: With this the consuption of alcohol has a direct impact on No of accidents

<Axes: xlabel='total', ylabel='alcohol'>



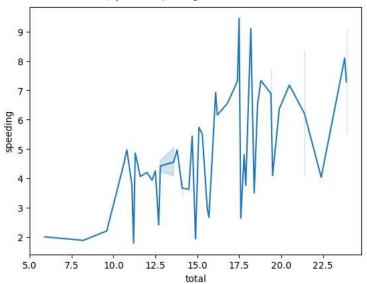
sns.scatterplot(x = 'total', y = 'speeding', data = df) # Inference: With the increse in speed the number of accidents also increses





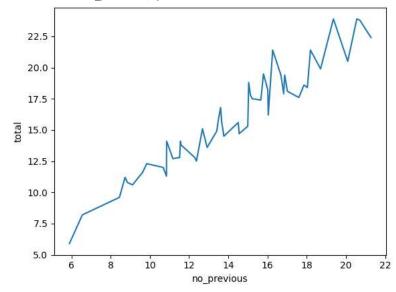
sns.lineplot(x = 'total', y = 'speeding', data = df) # Inference: With the increse in speed the number of accidents also increses

<Axes: xlabel='total', ylabel='speeding'>

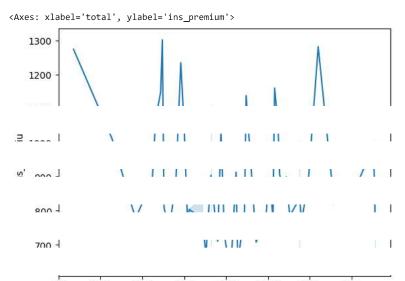


sns.lineplot(y = 'total', x = 'no_previous', data = df)
Inference: The total is directly proportional to the no_previous

<Axes: xlabel='no_previous', ylabel='total'>



sns.lineplot(x = 'total', y = 'ins_premium', data = df) # Inference: The Total Num of accidents has no such impact with the ins_premium



sns.distplot(df['total'])

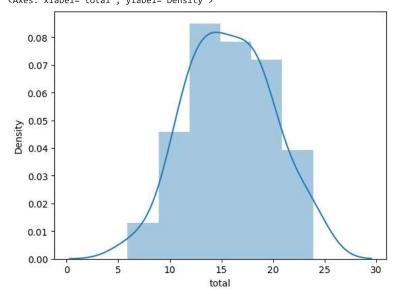
<ipython-input-18-2ba73417f012>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

sns.distplot(df['total'])
<Axes: xlabel='total', ylabel='Density'>



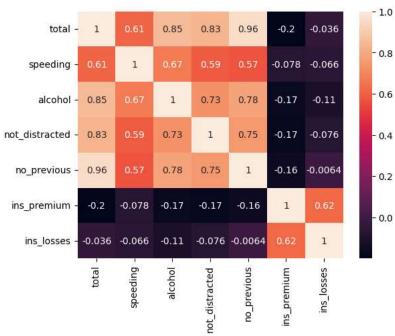
```
corr = df.corr()
```

<ipython-input-28-45893e33df67>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version
corr = df.corr()

←

sns.heatmap(corr, annot=True)

<Axes: >



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