```
In [2]: import seaborn as sns
```

```
In [4]: crashes = sns.load_dataset('car_crashes')
```

```
In [8]: crashes.head()
```

Out[8]:

| | total | speeding | alcohol | not_distracted | no_previous | ins_premium | ins_losses | abbrev |
|---|---|---|---|---|---|---|---|---|
| 0 | 18.8 | 7.332 | 5.640 | 18.048 | 15.040 | 784.55 | 145.08 | AL |
| 1 | 18.1 | 7.421 | 4.525 | 16.290 | 17.014 | 1053.48 | 133.93 | AK |
| 2 | 18.6 | 6.510 | 5.208 | 15.624 | 17.856 | 899.47 | 110.35 | AZ |
| 3 | 22.4 | 4.032 | 5.824 | 21.056 | 21.280 | 827.34 | 142.39 | AR |
| 4 | 12.0 | 4.200 | 3.360 | 10.920 | 10.680 | 878.41 | 165.63 | CA |

```
In [9]: crashes.describe()
```

Out[9]:

| | total | speeding | alcohol | not_distracted | no_previous | ins_premium | ins_losses |
|---|---|---|---|---|---|---|---|
| count | 51.000000 | 51.000000 | 51.000000 | 51.000000 | 51.000000 | 51.000000 | 51.000000 |
| mean | 15.790196 | 4.998196 | 4.886784 | 13.573176 | 14.004882 | 886.957647 | 134.493137 |
| std | 4.122002 | 2.017747 | 1.729133 | 4.508977 | 3.764672 | 178.296285 | 24.835922 |
| min | 5.900000 | 1.792000 | 1.593000 | 1.760000 | 5.900000 | 641.960000 | 82.750000 |
| 25% | 12.750000 | 3.766500 | 3.894000 | 10.478000 | 11.348000 | 768.430000 | 114.645000 |
| 50% | 15.600000 | 4.608000 | 4.554000 | 13.857000 | 13.775000 | 858.970000 | 136.050000 |
| 75% | 18.500000 | 6.439000 | 5.604000 | 16.140000 | 16.755000 | 1007.945000 | 151.870000 |
| max | 23.900000 | 9.450000 | 10.038000 | 23.661000 | 21.280000 | 1301.520000 | 194.780000 |

```
In [11]: sns.distplot(crashes['total'])
```

```
C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\2855447007.py: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(crashes['total'])
```
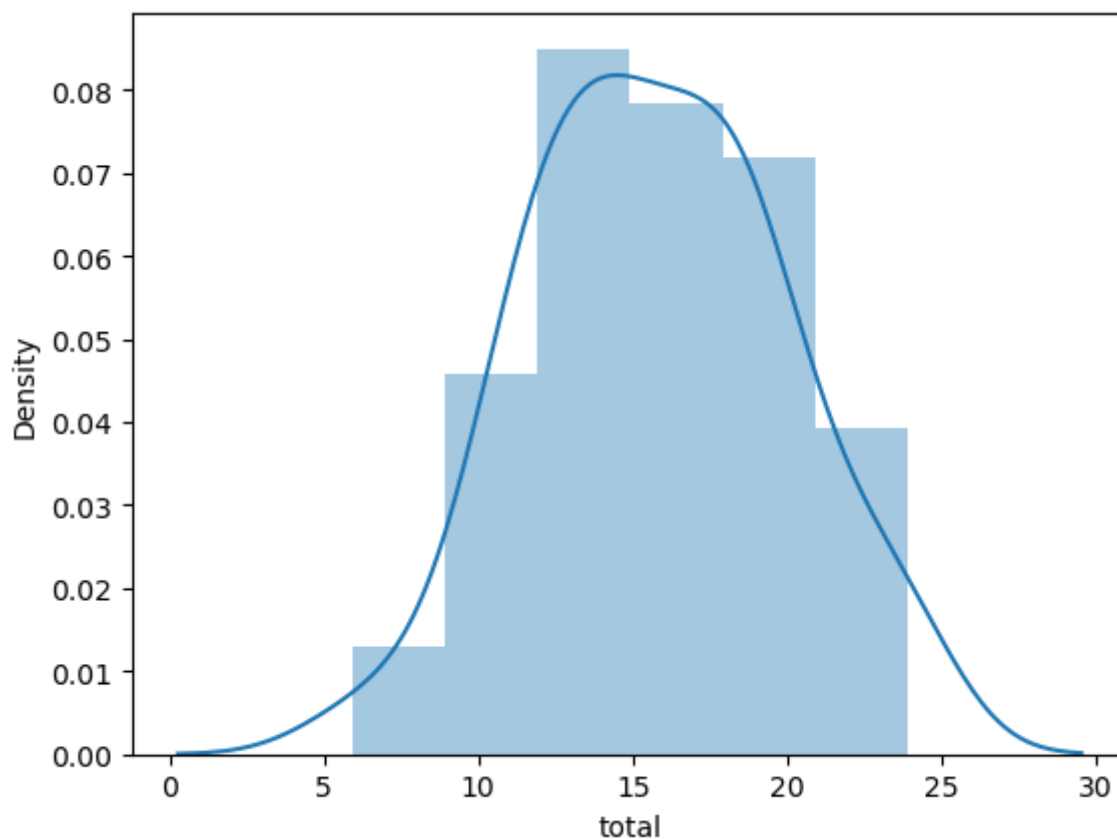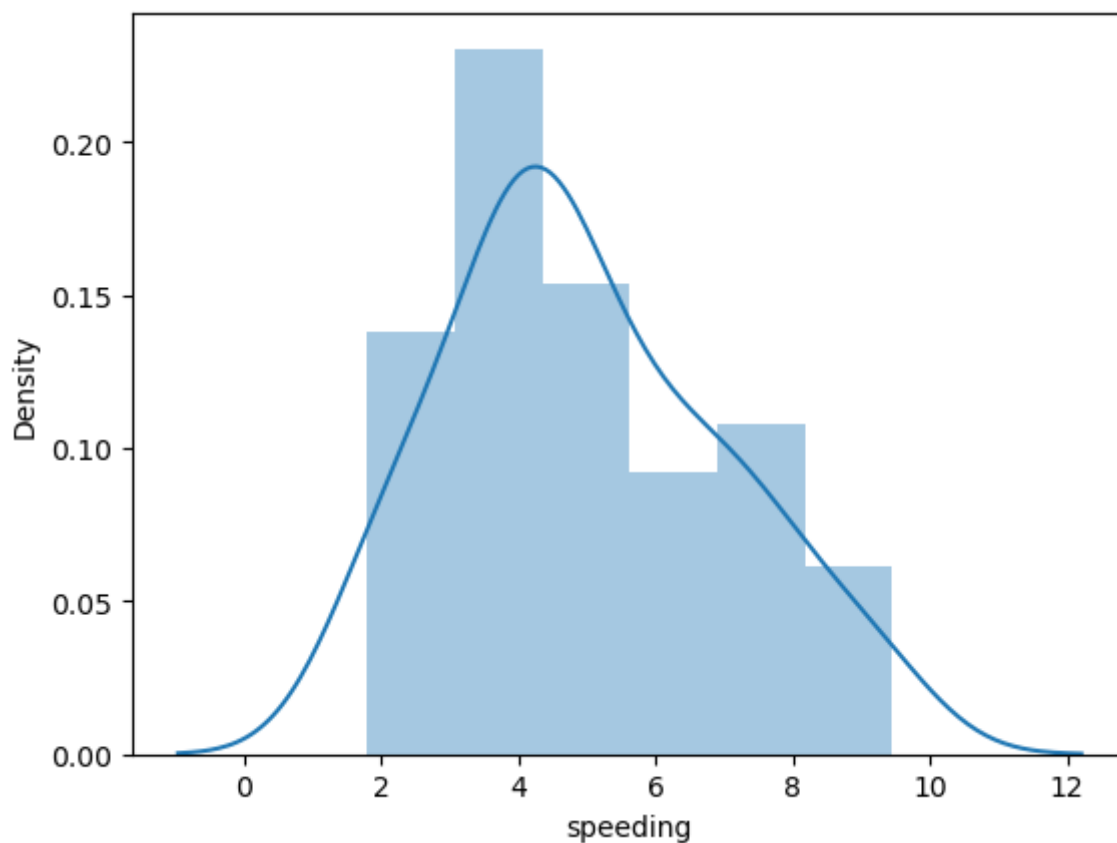
Out[11]: <Axes: xlabel='total', ylabel='Density'>

```
In [15]: sns.distplot(crashes['speeding'])
```

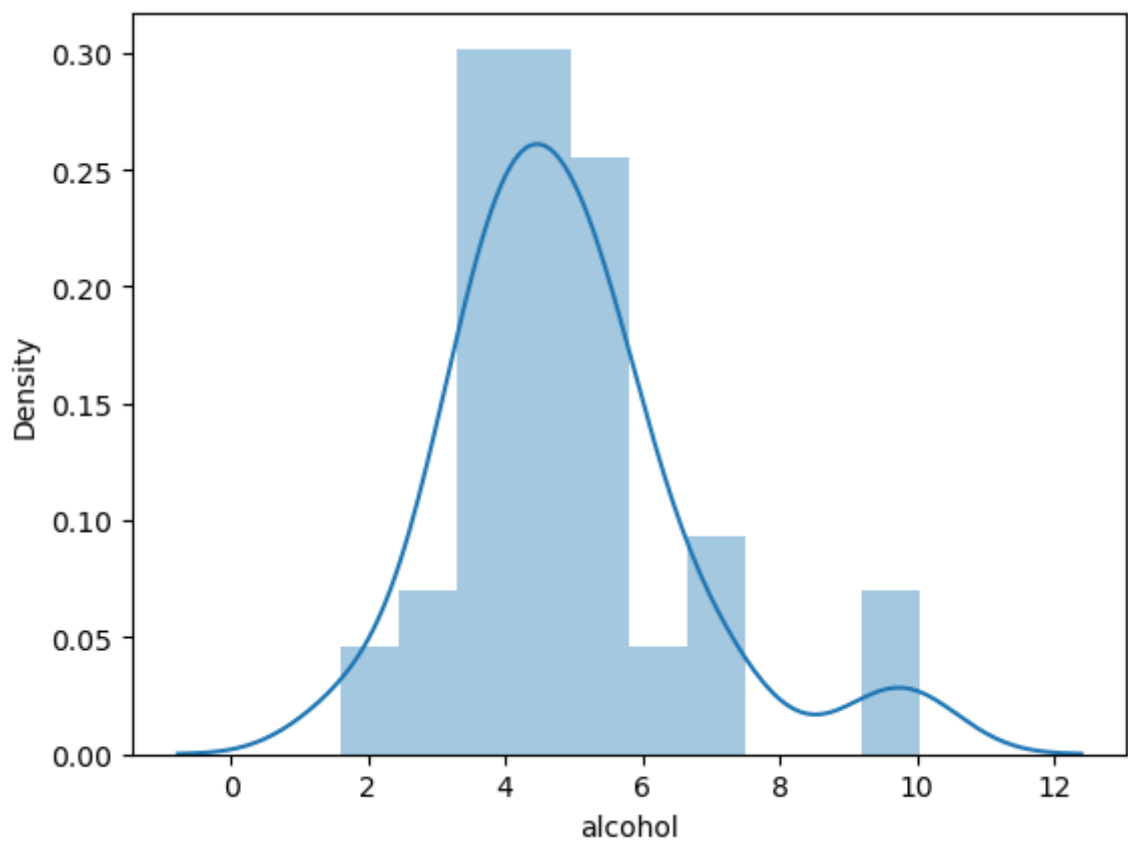C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\3316417068.py:1: UserWarning:

`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(crashes['speeding'])

```
Out[15]: <Axes: xlabel='speeding', ylabel='Density'>
```

```
In [16]:   sns.distplot(crashes['alcohol'])
```

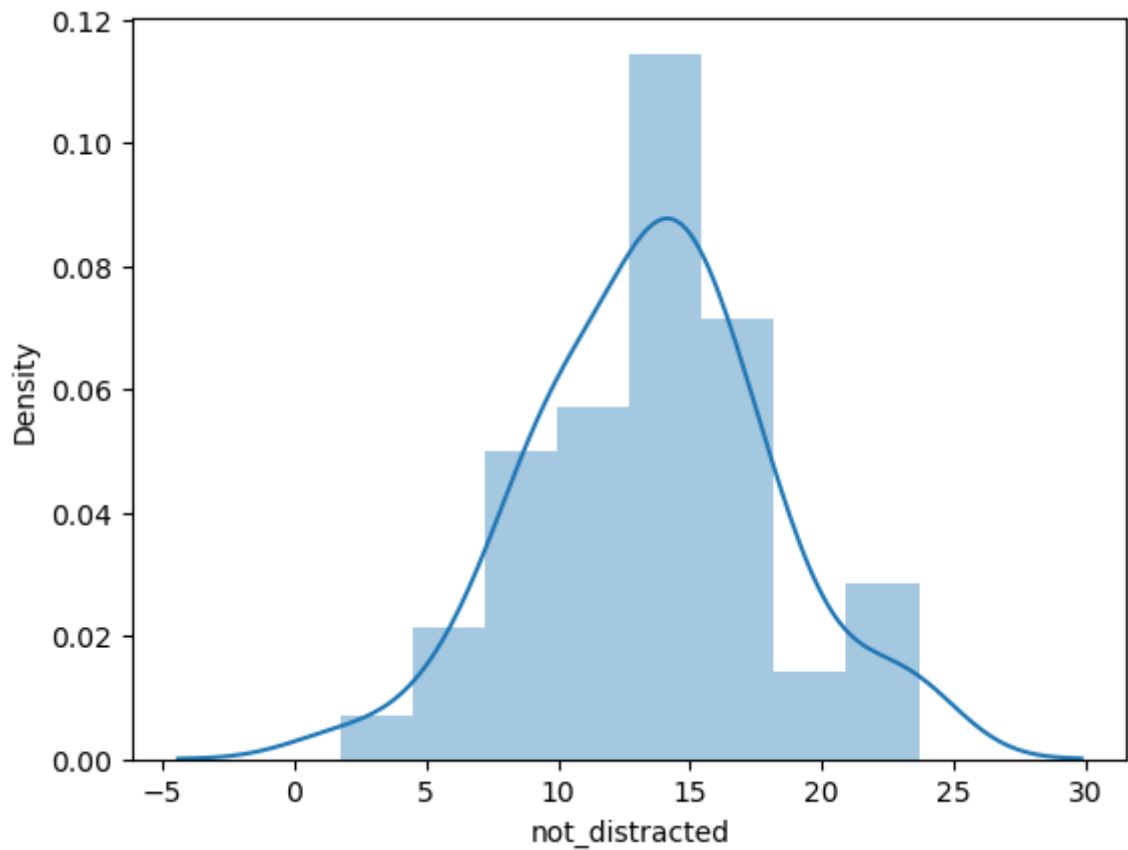C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\3261604507.py:1: UserWarning:

`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(crashes['alcohol'])

```
Out[16]:   <Axes: xlabel='alcohol', ylabel='Density'>
```

```
In [18]: sns.distplot(crashes['not_distracted'])
```

```
C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\3884005919.py: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(crashes['not_distracted'])
```

```
Out[18]: <Axes: xlabel='not_distracted', ylabel='Density'>
```

```
In [19]:  sns.distplot(crashes['no_previous'])
```

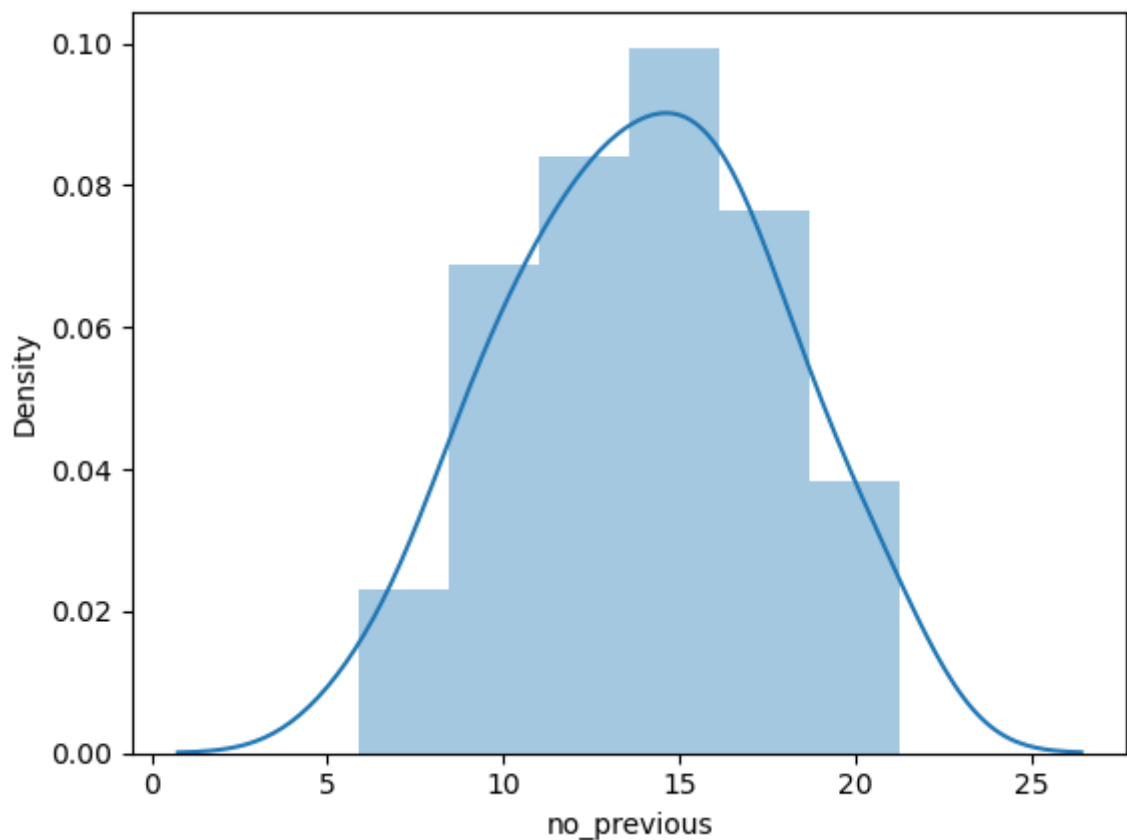C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\3297385761.py:1: UserWarning:

`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(crashes['no_previous'])

```
Out[19]:  <Axes: xlabel='no_previous', ylabel='Density'>
```

In [21]: 
```python
sns.distplot(crashes['ins_premium'])
```

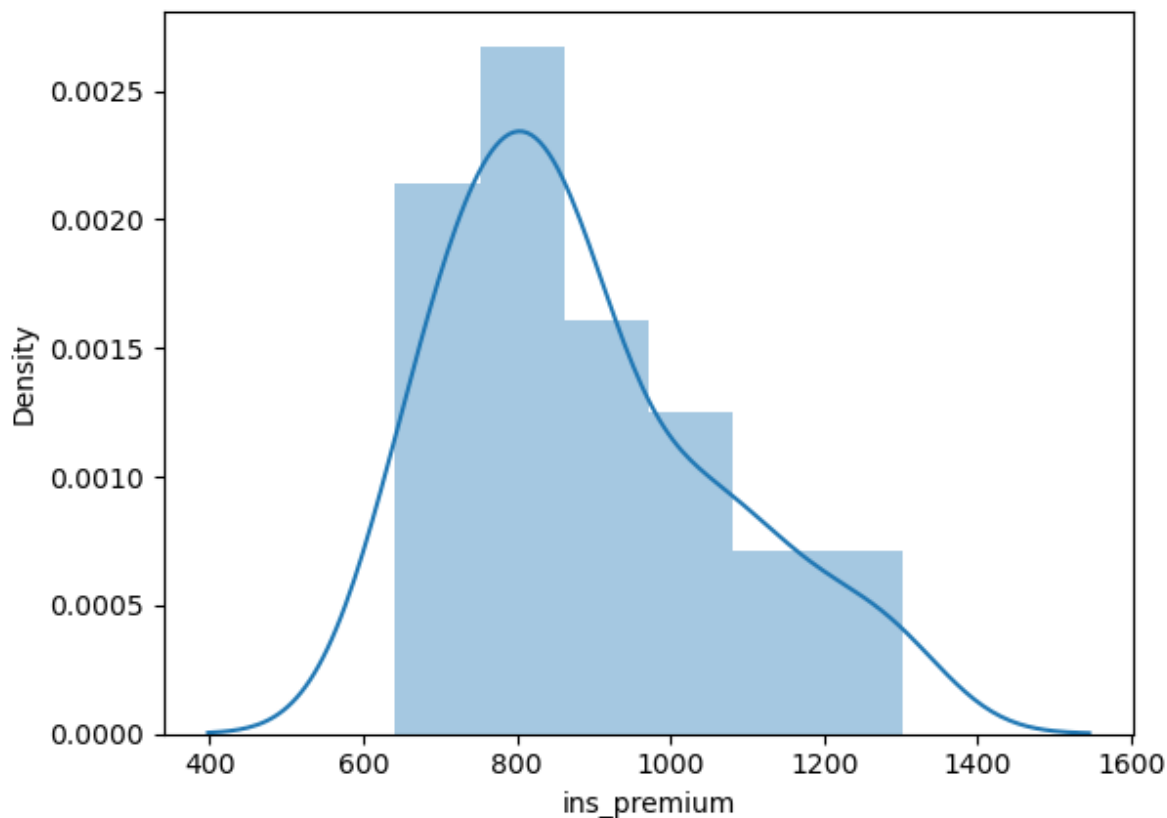C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\3874503944.py:1: UserWarning:

`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(crashes['ins_premium'])

Out[21]: `<Axes: xlabel='ins_premium', ylabel='Density'>`

```
In [23]:   sns.distplot(crashes['ins_losses'])
```

C:\Users\ABILASH\AppData\Local\Temp\ipykernel_32524\4112573805.py:1: UserWarning:
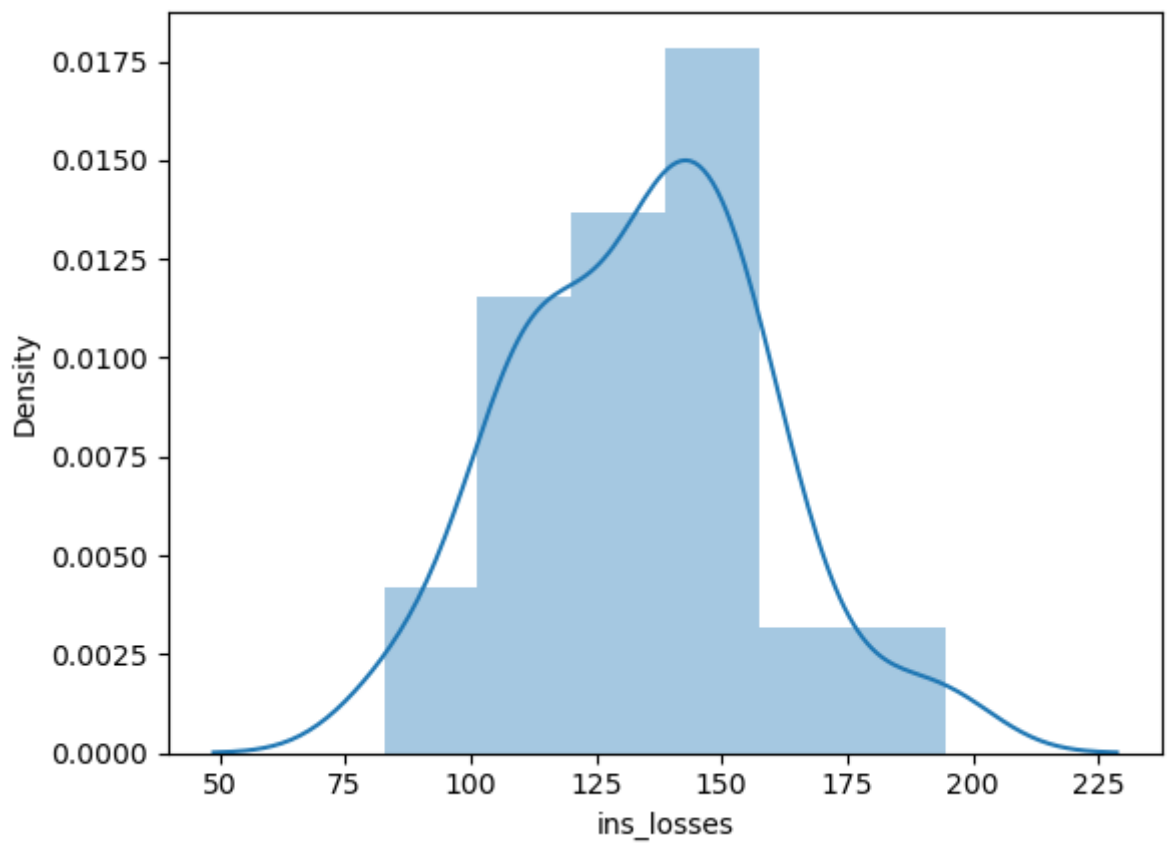
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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

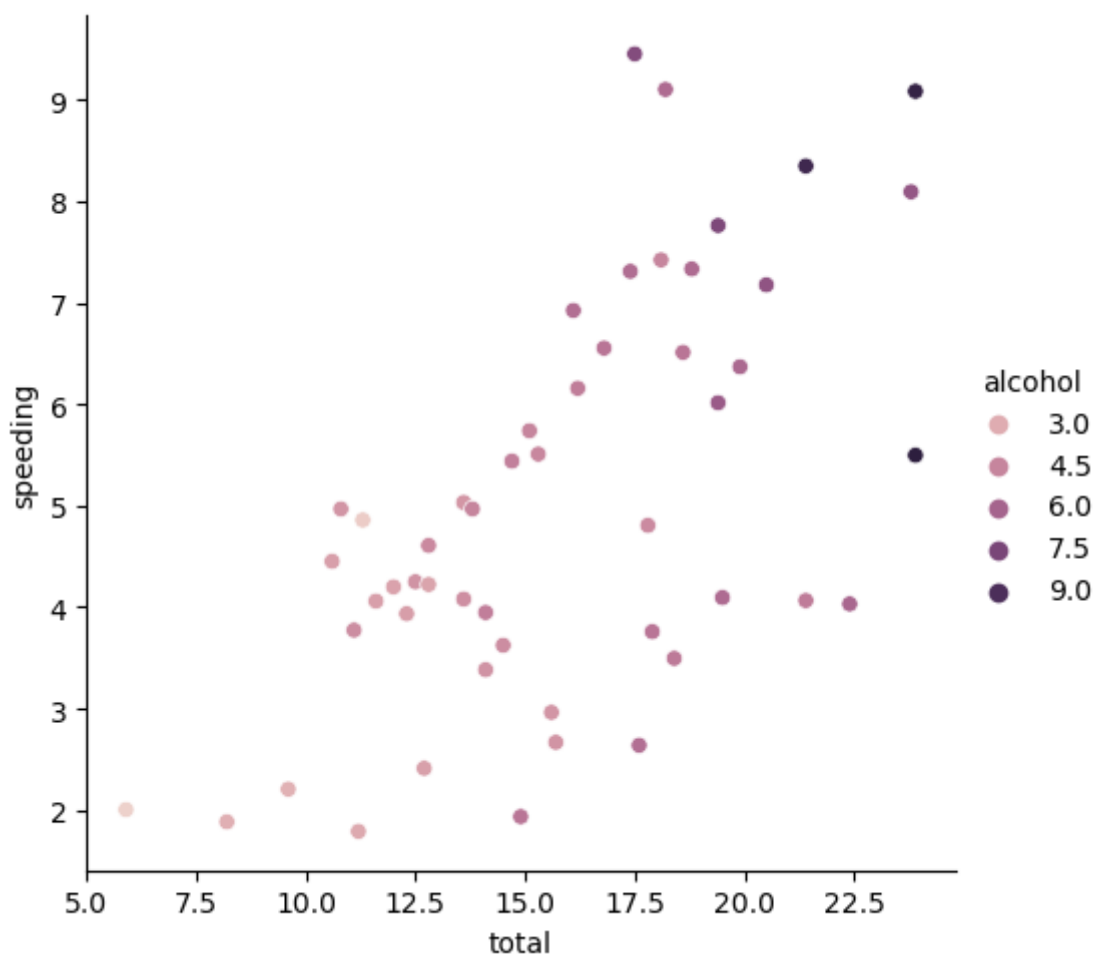For a guide to updating your code to use the new functions, please see https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(crashes['ins_losses'])

Out[23]:   <Axes: xlabel='ins_losses', ylabel='Density'>

```
In [25]: sns.relplot(x='total',y='speeding',data=crashes,hue='alcohol')
```

```
Out[25]: <seaborn.axisgrid.FacetGrid at 0x157a6a42390>
```
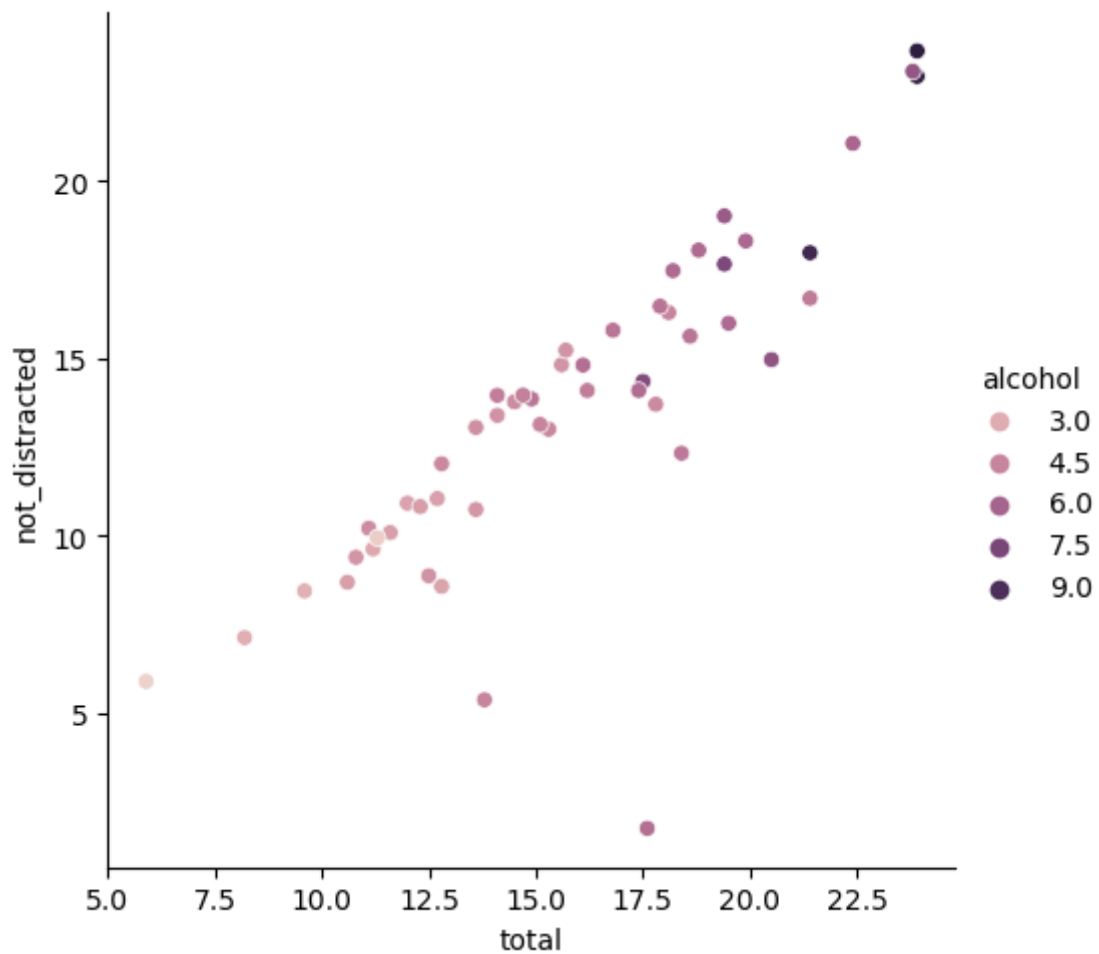
In [26]:   `#From the above plot it is clear that, speeding increases as alcohol impairment in`
           `#thus no of drives who were involved in collision also increases`

In [29]:   ```python
           sns.relplot(x='total',y='not_distracted',hue='alcohol',data=crashes)
           ```

Out[29]:   `<seaborn.axisgrid.FacetGrid at 0x157a7be7190>`



In [30]:   `#from the above plot we can infer that, drivers who were under`
           `#alcohol impairment were highly distracted`