In [30]:
```
import pandas as pd
```

In [32]:
```
import seaborn as sns
from sklearn import linear_model
```

In [34]:
```
df = pd.read_csv('pizza.csv')
```

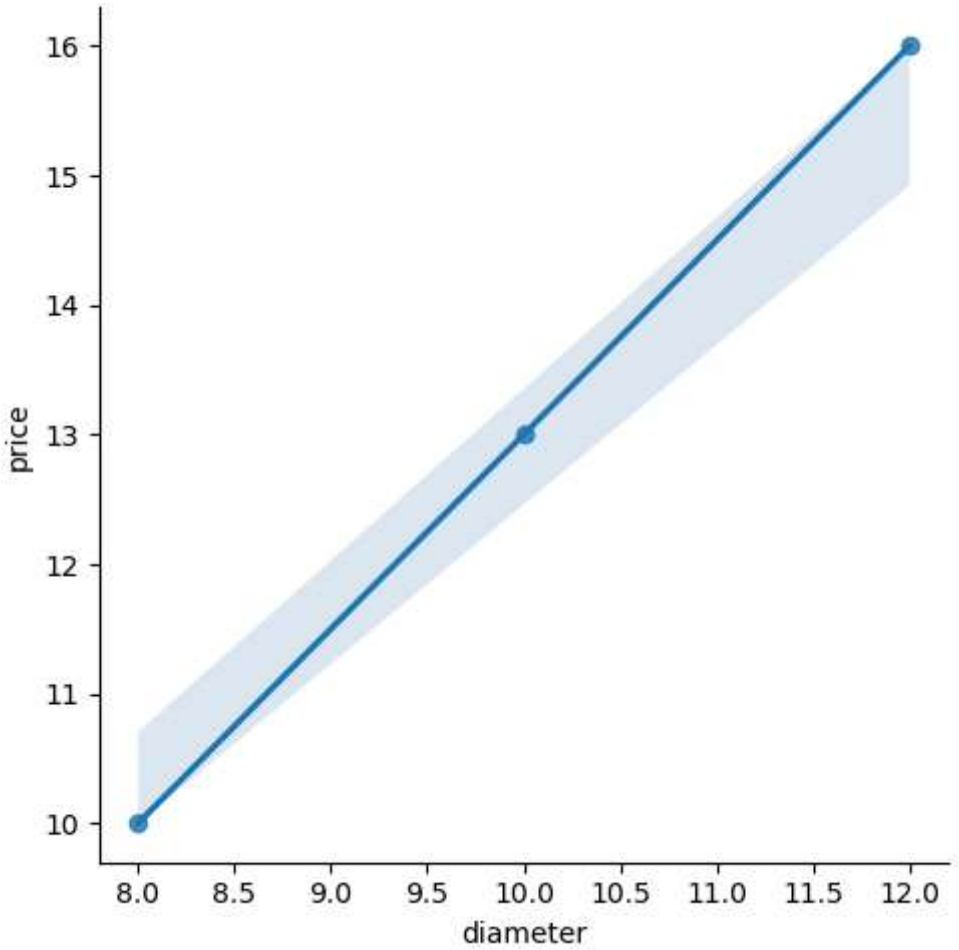
In [36]:
```
df
```

Out[36]:

	diameter	price
0	8	10
1	10	13
2	12	16

In [40]:
```
sns.lmplot(x='diameter',y='price',data=df)
```

Out[40]:
```
<seaborn.axisgrid.FacetGrid at 0x1786544cd70>
```



In [42]:
```
reg=linear_model.LinearRegression()
```

In [54]:
```
reg.fit(df[['diameter']],df['price'])
```

Out[54]:
```
LinearRegression()
```

In [56]:
```
reg.predict([[20]])
```

```
C:\Users\hp\anaconda3\Lib\site-packages\sklearn\base.py:493: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
  warnings.warn(
```

Out[56]:
```
array([28.])
```

In [58]:
```
reg.predict([[16]])
```

```
C:\Users\hp\anaconda3\Lib\site-packages\sklearn\base.py:493: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
  warnings.warn(
```

Out[58]:
```
array([22.])
```

In [60]:
```
reg.coef_
```

Out[60]:
```
array([1.5])
```

In [62]:
```
reg.intercept_
```

Out[62]:
```
-1.9999999999999982
```

In [ ]: