In [14]:
```
import numpy as np
import pandas as pd
```

In [15]:
```
dict1={'Head_size':[1,2,3,4,5],
       'Brain_weight':[110,198,285,470,490]}
df=pd.DataFrame(dict1)
df
```

Out[15]:

	Head_size	Brain_weight
0	1	110
1	2	198
2	3	285
3	4	470
4	5	490

In [65]:
```
x=['Head_size']
y=['Brain_weight']
```

In [66]:
```
len(x),len(y)
```

Out[66]:
```
(1, 1)
```

In [68]:
```
X1=df[['Head_size']]
Y1=df['Brain_weight']
```

In [69]:
```
from sklearn.linear_model import LinearRegression
lr=LinearRegression()
```

In [70]:
```
lr.fit(X1,Y1)
```

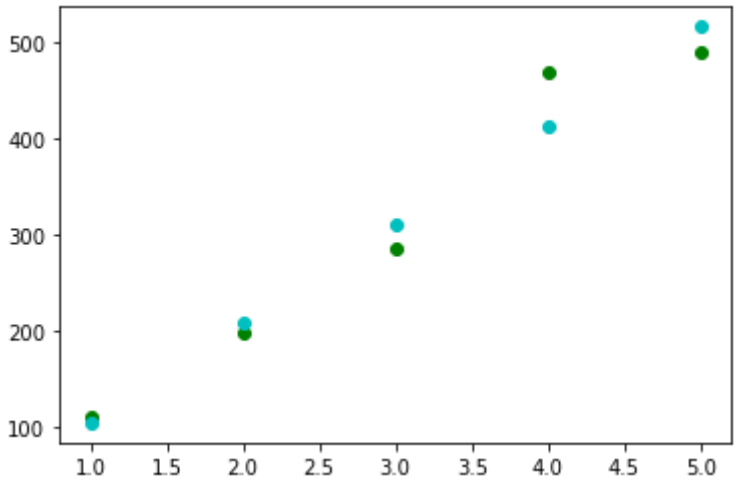
Out[70]:
```
LinearRegression()
```

In [72]:
```
y_predict=lr.predict(X1)
y_predict
```

Out[72]:
```
array([104.2, 207.4, 310.6, 413.8, 517. ])
```

In [ ]:
```
import matplotlib.pyplot as plt
```

In [79]:
```
plt.scatter(X1,Y1,color='g')
plt.scatter(X1,y_predict,color='c')
plt.legend
plt.show()
```



In [ ]: