**Source code:**

```
"""
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"""

#simple linear regression
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
#importing the dataset of brain weight and head size
dataset = pd.read_csv('dataset.csv')
A = dataset.iloc[:, 2:3].values
B = dataset.iloc[:, 3].values
#splitting the dataset into training and test set with the ratio of 4:1
from sklearn.model_selection import train_test_split
A_train, A_test, B_train, B_test = train_test_split(A,B, test_size=0.2)
#fitting simple linear regression to the training set
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
#to train the model
regressor.fit(A_train,B_train)
#predicting the test set results
B_pred=regressor.predict(A_test)
#plotting training set
plt.scatter(A_train, B_train, color='blue')
plt.plot(A_train, regressor.predict(A_train), color='orange')
plt.title('Head Size(cm^3) Vs. Brain Weight(grams)')
plt.xlabel('Head Size(cm^3)')
plt.ylabel('Brain Weight(grams)')
plt.show()
#plotting Test set results
plt.scatter(A_test, B_test, color= 'blue')
plt.plot(A_train, regressor.predict(A_train), color='orange')
plt.title('Head Size(cm^3) Vs. Brain Weight(grams)')
plt.xlabel('Head Size(cm^3)')
plt.ylabel('Brain Weight(grams)')
plt.show()
```
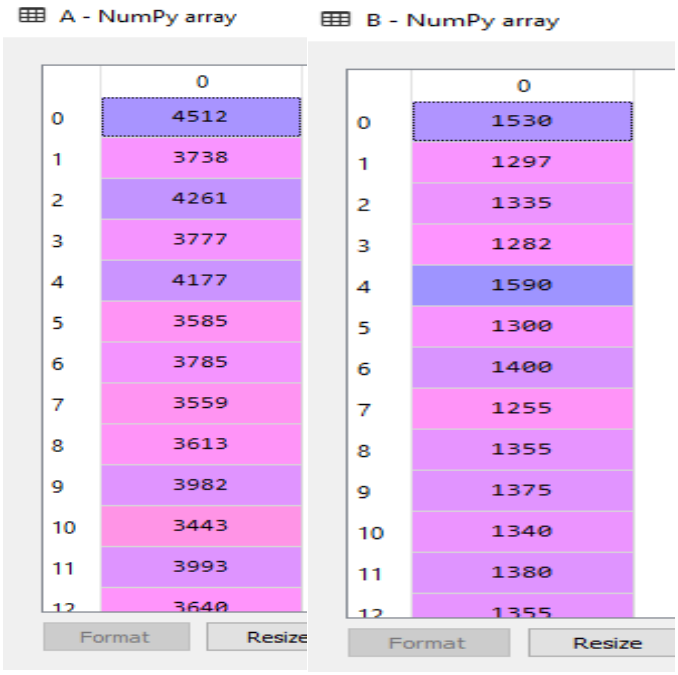

**Variable Explorer:**

| Name | Type | Size | Value |
|---|---|---|---|
| A | int64 | (237, 1) | [[4512]<br>[3738]] |
| A_test | int64 | (48, 1) | [[3391]<br>[3214]] |
| A_train | int64 | (189, 1) | [[3566]<br>[3850]] |
| B | int64 | (237,) | [1530 1297 1335 ... 1104 1170 1120] |
| B_pred | float64 | (48,) | [1222.41363842 1176.55932191 1192.88034982 ...<br>1266.45450738 1248.0609 ... |
| B_test | int64 | (48,) | [1120 1110 1105 ... 1127 1132 1165] |
| B_train | int64 | (189,) | [1306 1412 1275 ... 1222 1440 1287] |
| dataset | DataFrame | (237, 4) | Column names: Gender, Age Range, Head<br>Size(cm^3), Brain Weight(grams) |

A= Head Size,  B= Brain Weight




**Output:**