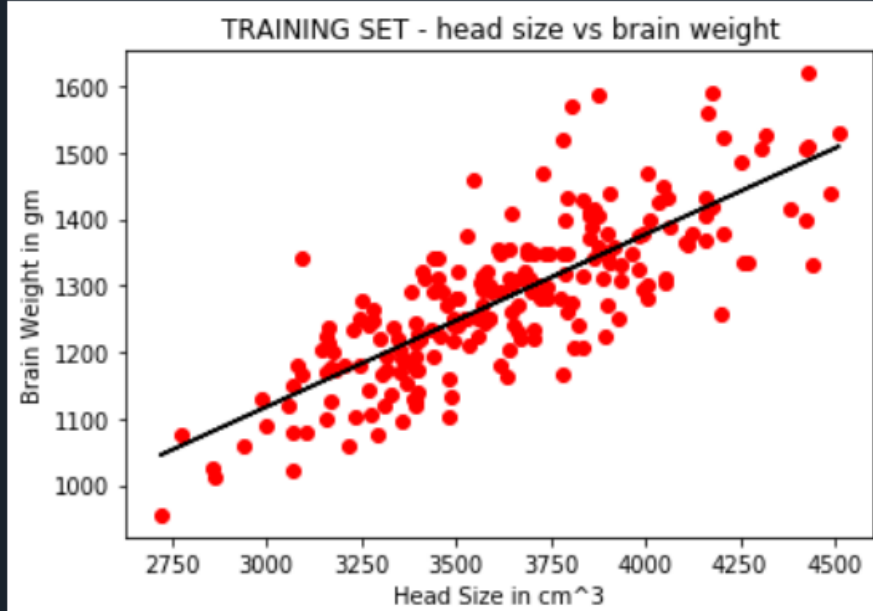
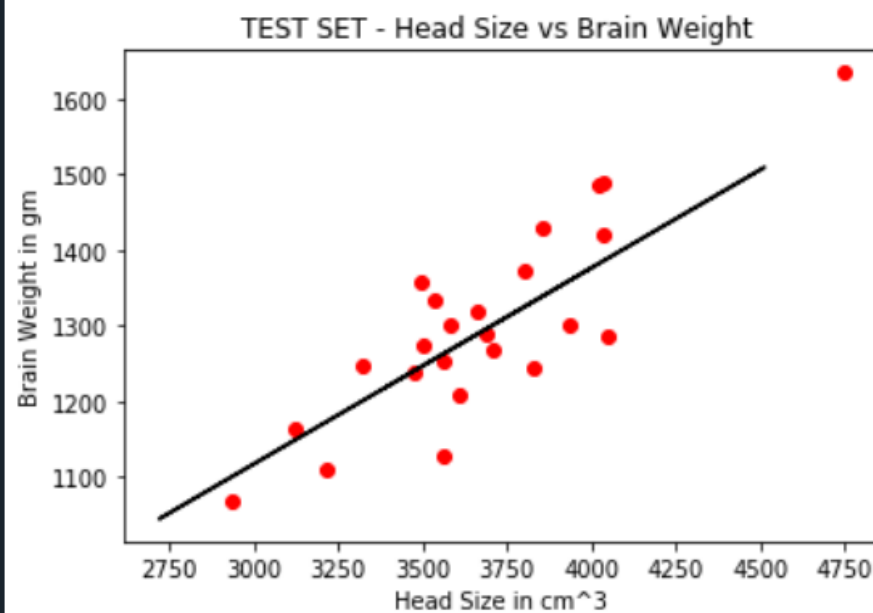
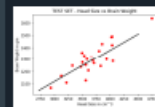
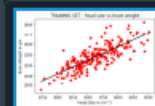


assignment.py* x

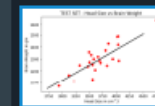
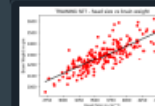
```
3 # Importing libraries
4 import numpy as np
5 import matplotlib.pyplot as plt
6 import pandas as pd
7
8 # Importing the dataset
9 dataset = pd.read_csv('C:/Users/Tasmiya Anwer/Desktop/ml/Assignemnt-2-batch-3-master/size of head.csv')
10 X = dataset.iloc[:, 2:3].values
11 y = dataset.iloc[:, 3].values
12
13 # Splitting the dataset into the Training set and Test set
14 from sklearn.model_selection import train_test_split
15 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.1)
16
17 # Fitting Linear Regression to the Training set
18 from sklearn.linear_model import LinearRegression
19 regressor = LinearRegression()
20 regressor.fit(X_train, y_train)
21
22 # Predicting the Test set results
23 y_pred = regressor.predict(X_test)
24
25 # mapping the Training set results
26 plt.scatter(X_train, y_train, color = 'red')
27 plt.plot(X_train, regressor.predict(X_train), color = 'black')
28 plt.title('TRAINING SET - head size vs brain weight')
29 plt.xlabel('Head Size in cm^3')
30 plt.ylabel('Brain Weight in gm')
31 plt.show()
32
33 #mapping the Test set results
34 plt.scatter(X_test, y_test, color = 'red')
35 plt.plot(X_train, regressor.predict(X_train), color = 'black')
36 plt.title('TEST SET - Head Size vs Brain Weight ')
37 plt.xlabel('Head Size in cm^3')
38 plt.ylabel('Brain Weight in gm')
39 plt.show()
```



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Name ▲	Type	Size	Value
X	Array of int64	(237, 1)	[[4512] [3738]
X_test	Array of int64	(24, 1)	[[3497] [3710]
X_train	Array of int64	(213, 1)	[[3389] [3692]
dataset	DataFrame	(237, 4)	Column names: Gender, Age Range, Head Size(cm^3), Brain Weight(grams)
regressor	linear_model.base.LinearRegression	1	LinearRegression object of sklearn.linear_model.base module
y	Array of int64	(237,)	[1530 1297 1335 ... 1104 1170 1120]
y_pred	Array of float64	(24,)	[1246.49996484 1301.76531645 1101.20138781 ... 1360.6631325 1262.5865 ...]
y_test	Array of int64	(24,)	[1358 1270 1070 ... 1300 1255 1374]
y_train	Array of int64	(213,)	[1130 1305 1300 ... 1192 1220 1302]

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