**EXPERIMENT TITLE-2**

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| **To implement the linear regression models on the given data set. Also, calculate the errors.**  **A. Simple linear regression**  **B. Multi linear Regression** |

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**Branch:** CSE IOT **Section/Group:** 1/A

**Semester:** 6  **Date of Performance:** 24/02/2022

**Subject Name:** ML Lab  **Subject Code:** CSD 386

**1 Aim/Overview of the practical:** To understand the Linear Regression model, and to implement the linear regression models on the given data set. Also, calculate the errors.

A. Simple linear regression

B. Multi linear Regression

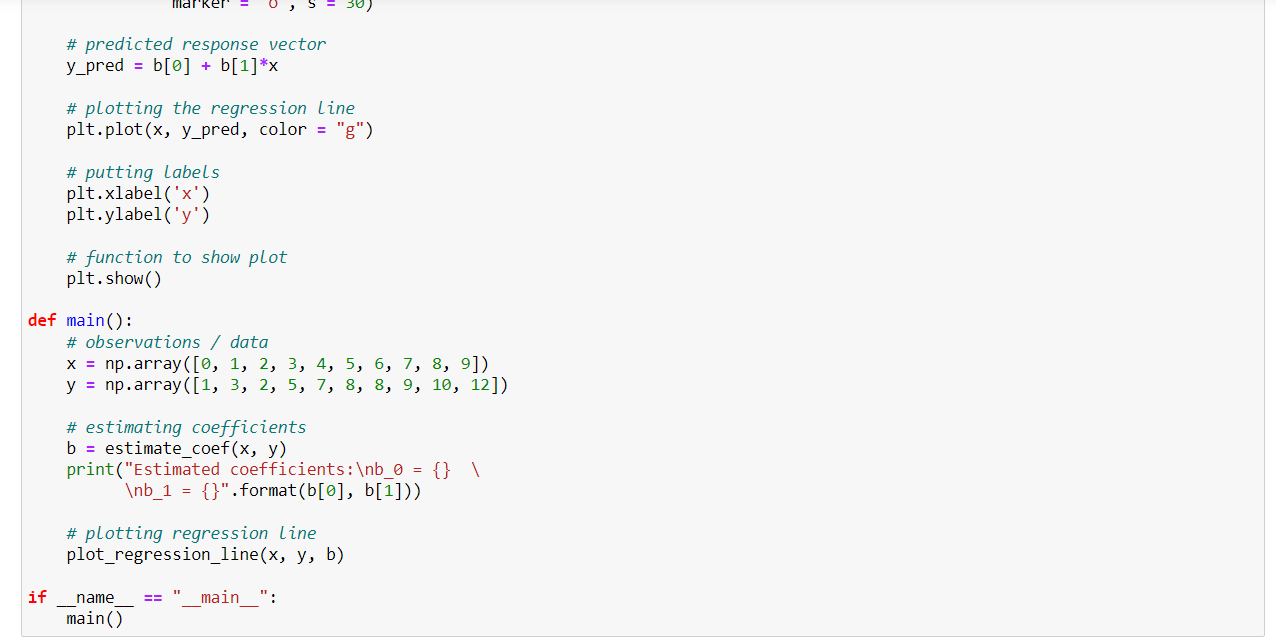
**2. Task to be done:**

Develop a python code to implement Linear Regression Model on dataset given in the statement.

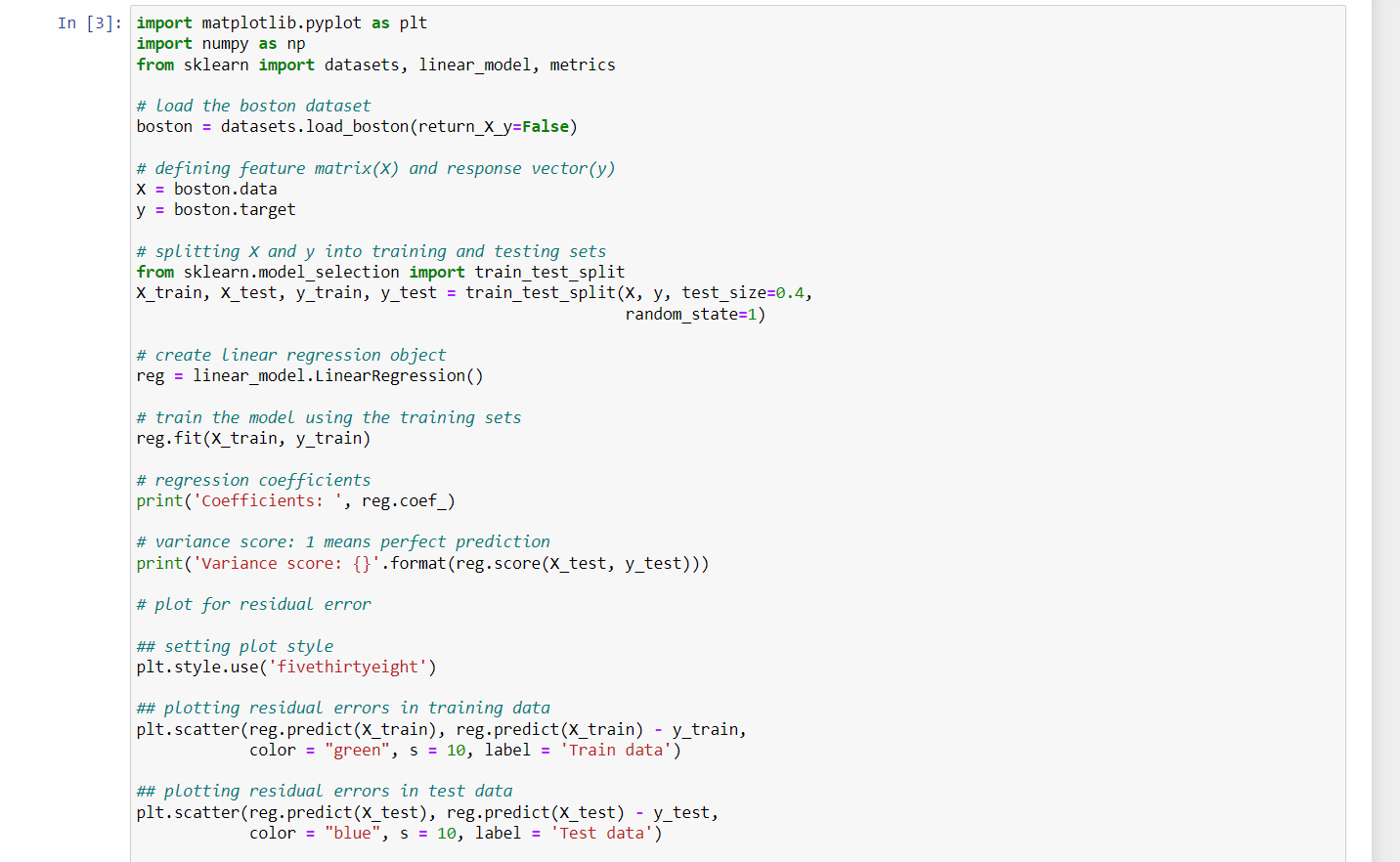
**3. Code:**

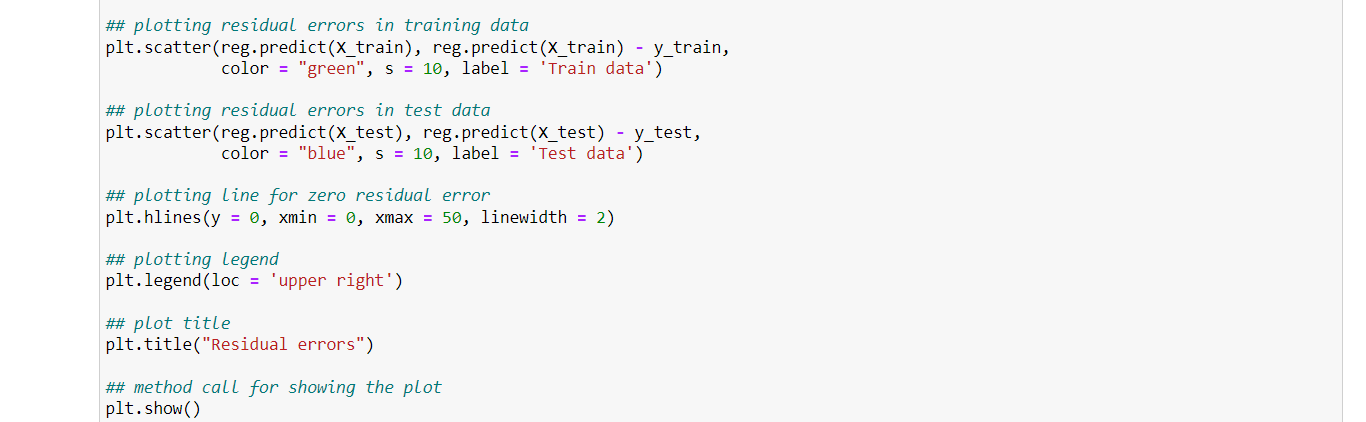
* **Linear Regression:**

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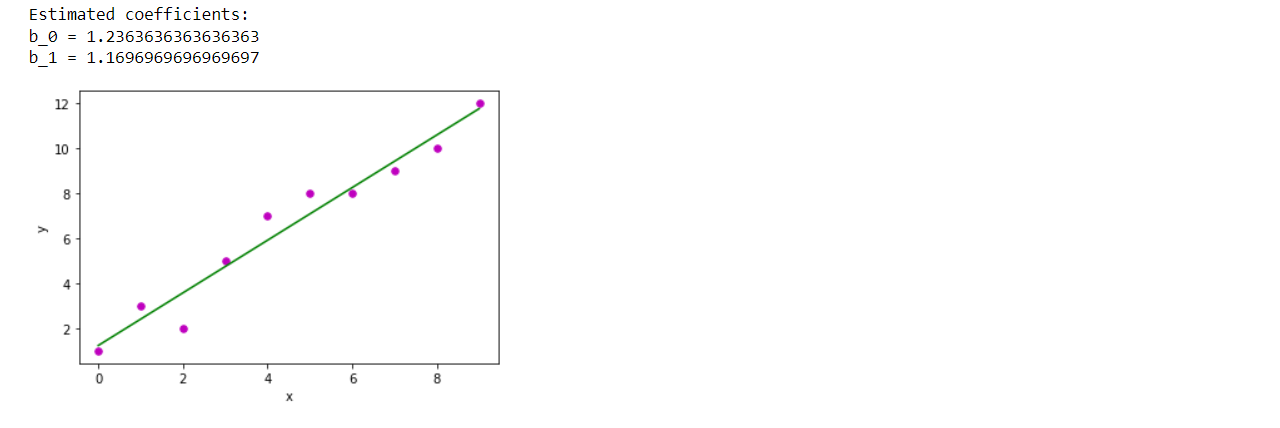
* **Multi Linear Regression:**

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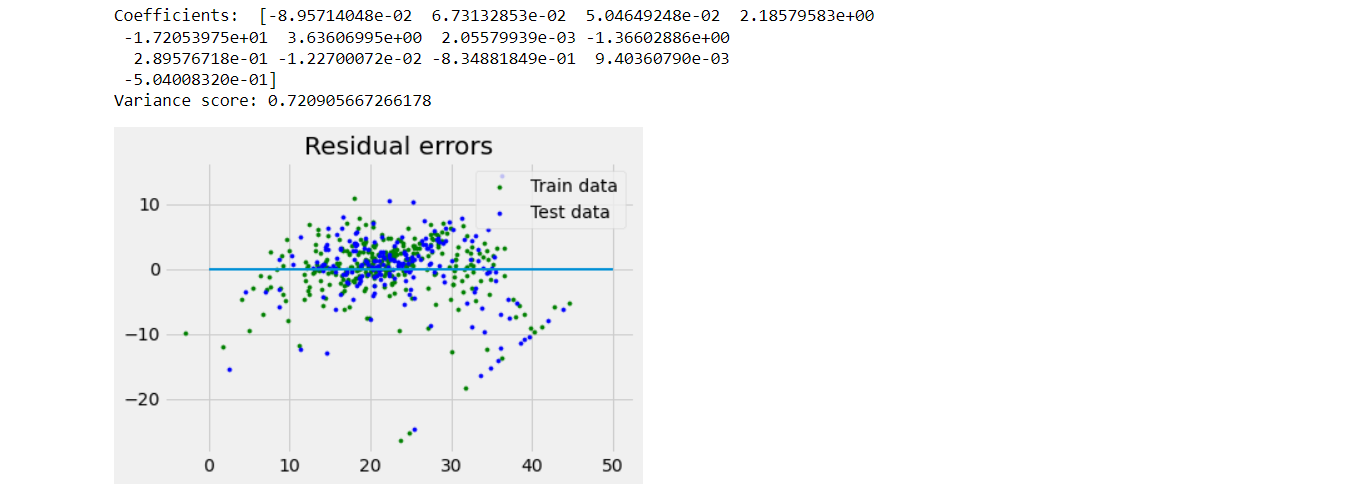
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**4. Results:**

* **Linear Regression:**

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* **Multi Linear Regression:**

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**5. Graphs (If Any): Image /Soft copy of graph paper to be attached here**

NA

**Learning outcomes (What I have learnt):**

1. Learnt about NumPy and pandas.
2. Learnt about Matplotlib.
3. Learnt about Linear Regression.
4. Learnt about Multi Linear Regression.

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

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| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
|  |  |  |  |