**Experiment No 4**

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| **Branch:** CSE **Semester:** 5th | **Section/Group:** 20BCS\_MM\_806/ B |
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**Subject Name:** Machine Learning lab **Subject Code:** 20CSP-317

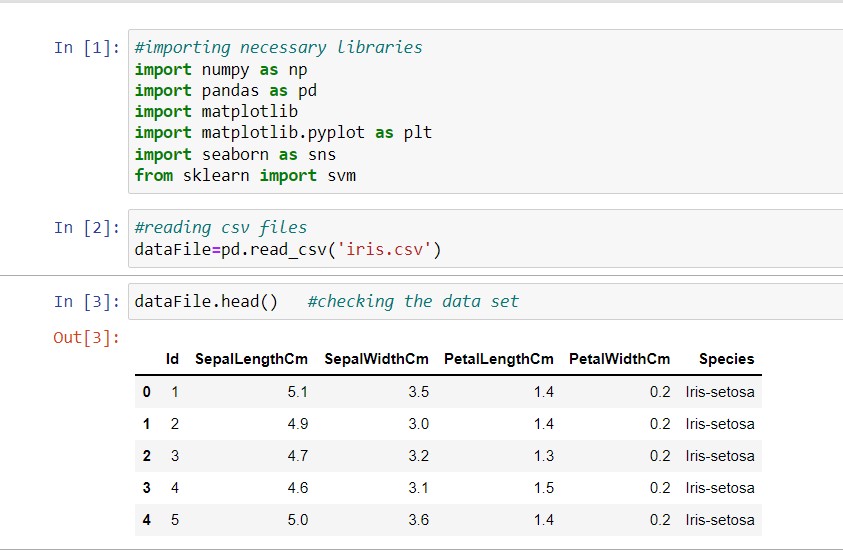
**1.1 Aim/Overview of the practical:** Implement Support Vector Machine on any data set and analyze the accuracy with Logistic regression.

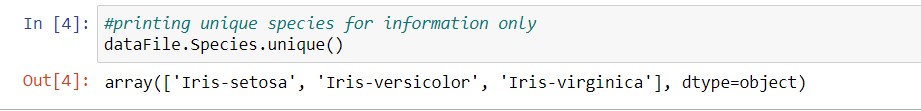
**1.2. Task to be done:** Perform SVM on given data set.

**1.3 Apparatus/Simulator used:**

* Jupyter Notebook
* Python
* Pandas Library
* Data Set
* Sklearn
* matplotlib

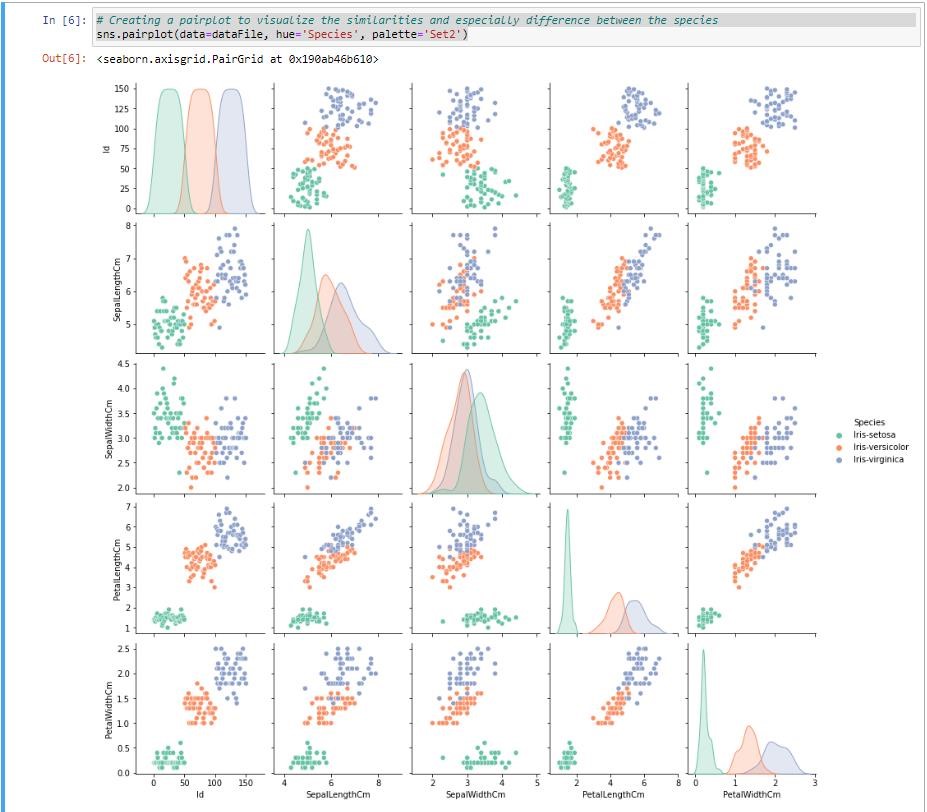
**1.3. Code:**



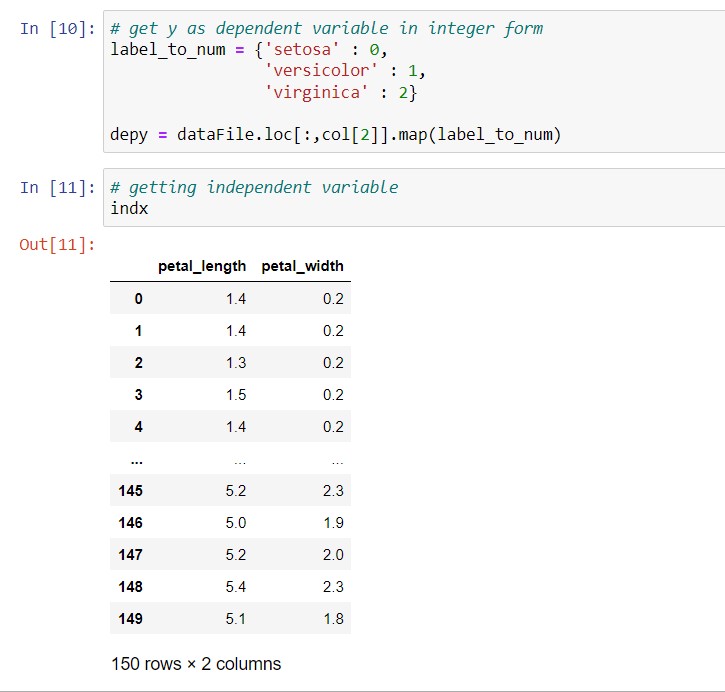
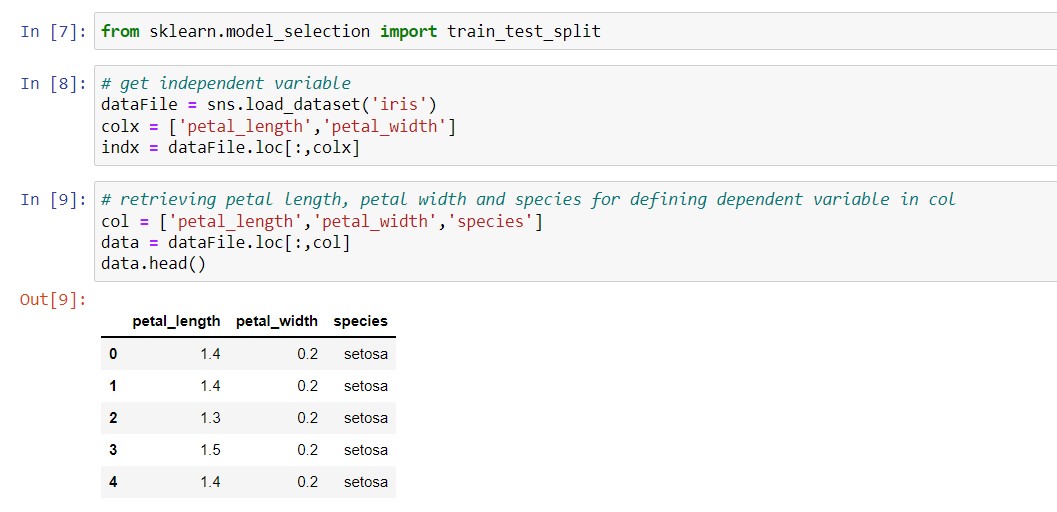


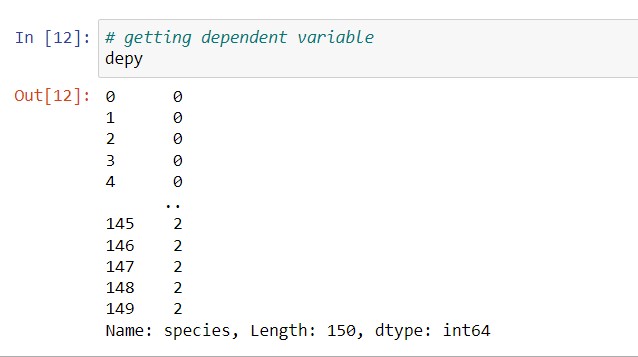
# Creating a pairplot to visualize the similarities and especially difference between the species

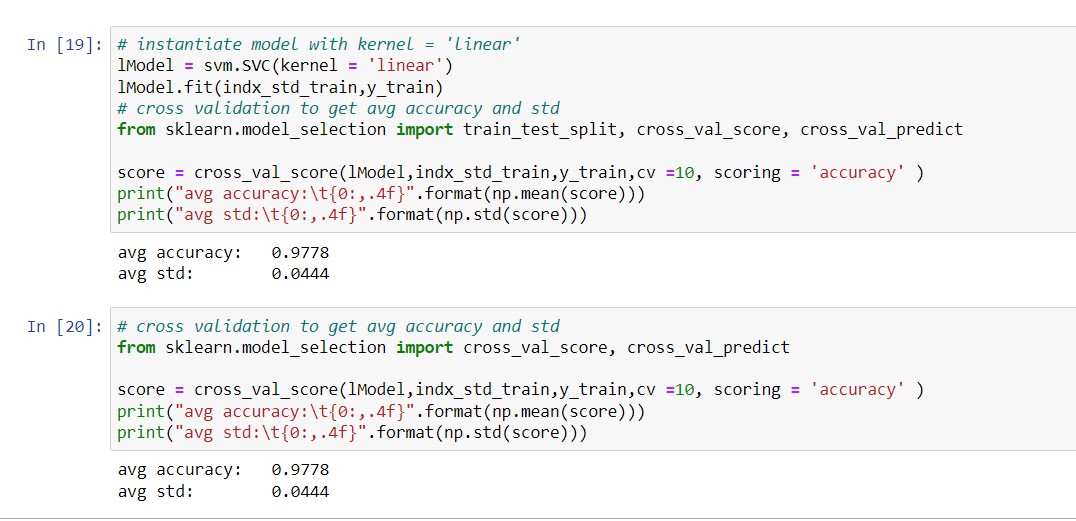
sns.pairplot(data=dataFile, hue='Species', palette='Set2')



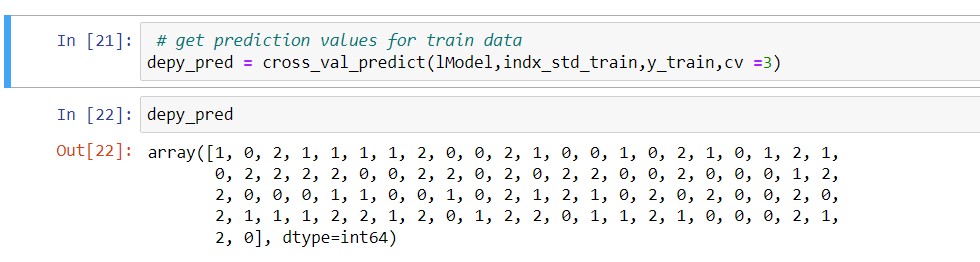
# Train test split



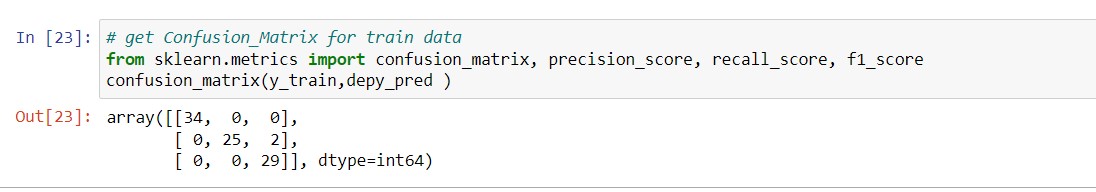


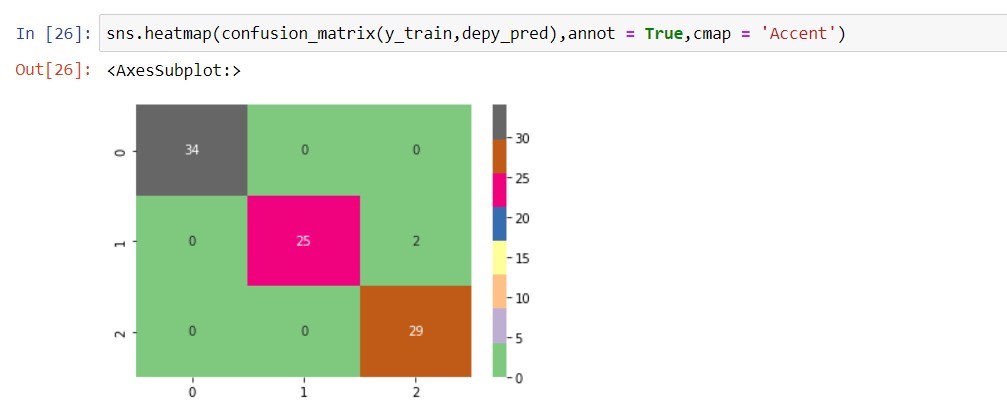


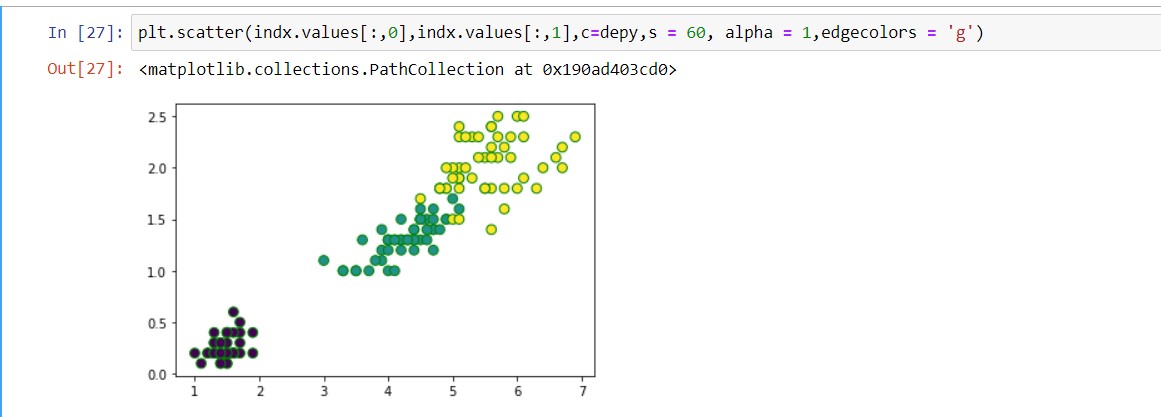
# Predictions from the trained model



# Model Evaluation







**1.4 Learning Outcomes:**

1. Learned about confusion matrix.
2. Learned about logistic 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. |  |  |  |
|  |  |  |  |