**GURU JAMESHWAR UNIVERSITY OF SCIENCE**

**AND TECHNOLOGY**

# **(Hisar-Haryana)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Practical file**

**Machine Learning**

**(PCC-CSEAI301-P)**

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| **Submitted to :** | **Submitted by :** |
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**1. Assignment demonstrating Linear Regression:**

**a) Implementing linear regression on placement dataset and predicting the dependent variable.**

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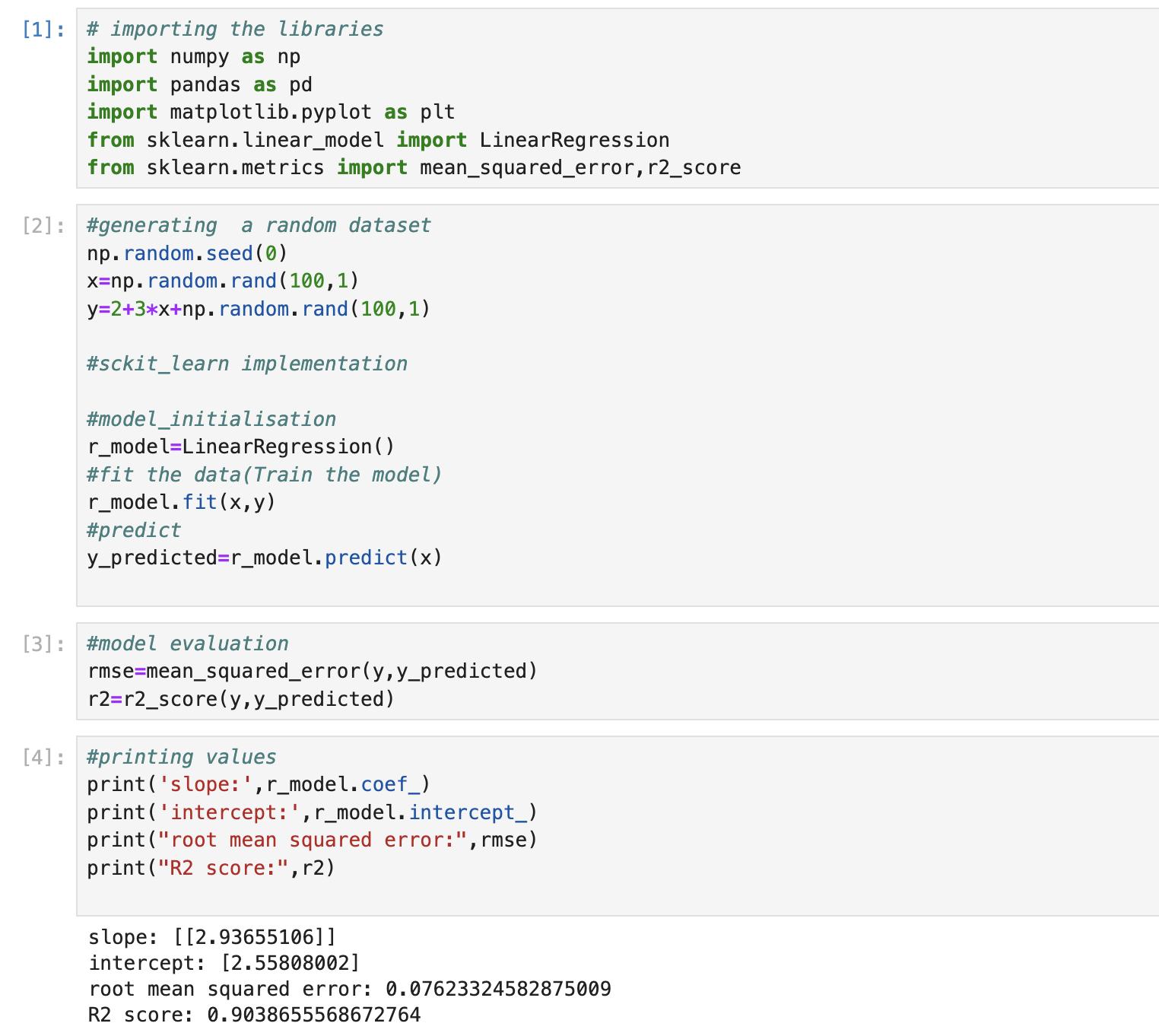
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**b) Implementing linear regression on randomly generated dataset and evaluation of the regression model using R2 score.**



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**2. Implementing and demonstrating the Find-S algorithm for finding most specific hypothesis using :**

**a) Cat - non cat dataset.**

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**b) EnjoySport dataset.A screenshot of a computer program

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**3. Implementing Candidate Elimination algorithm and finding specific and general boundary sets of hypotheses consistent with EnjoySport dataset via.**

**a) Program 1**

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**b) Program 2**

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**4.** **Implementing Perceptron learning from scratch and showing decision boundary.**

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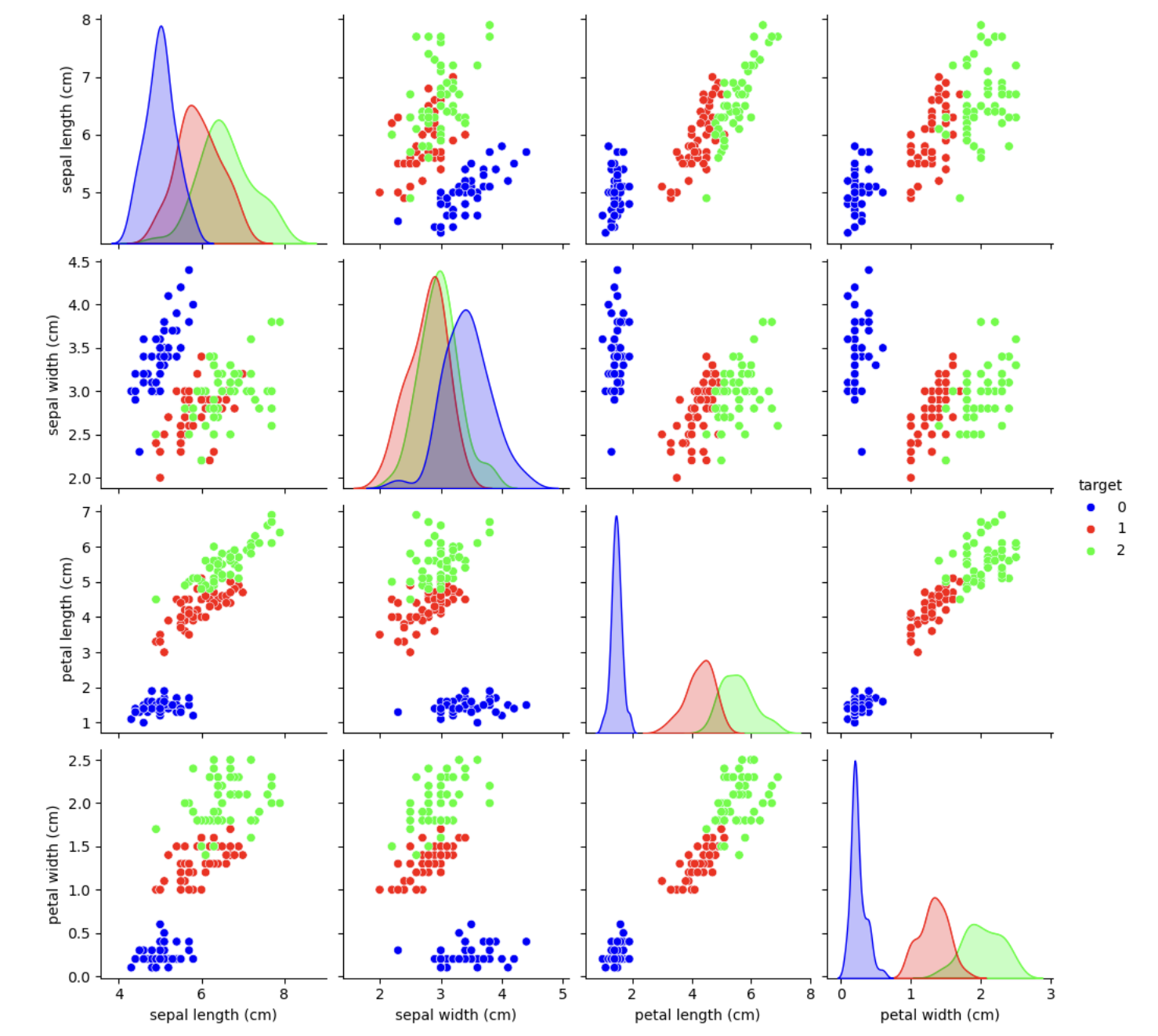
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**5. Classification through SVM using iris dataset using SVC default setting**

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**6. Implementing SVM from scratch to show the decision boundary and support vector and increase and decrease classification accuracy by changing c value.**

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**A screenshot of a computer program

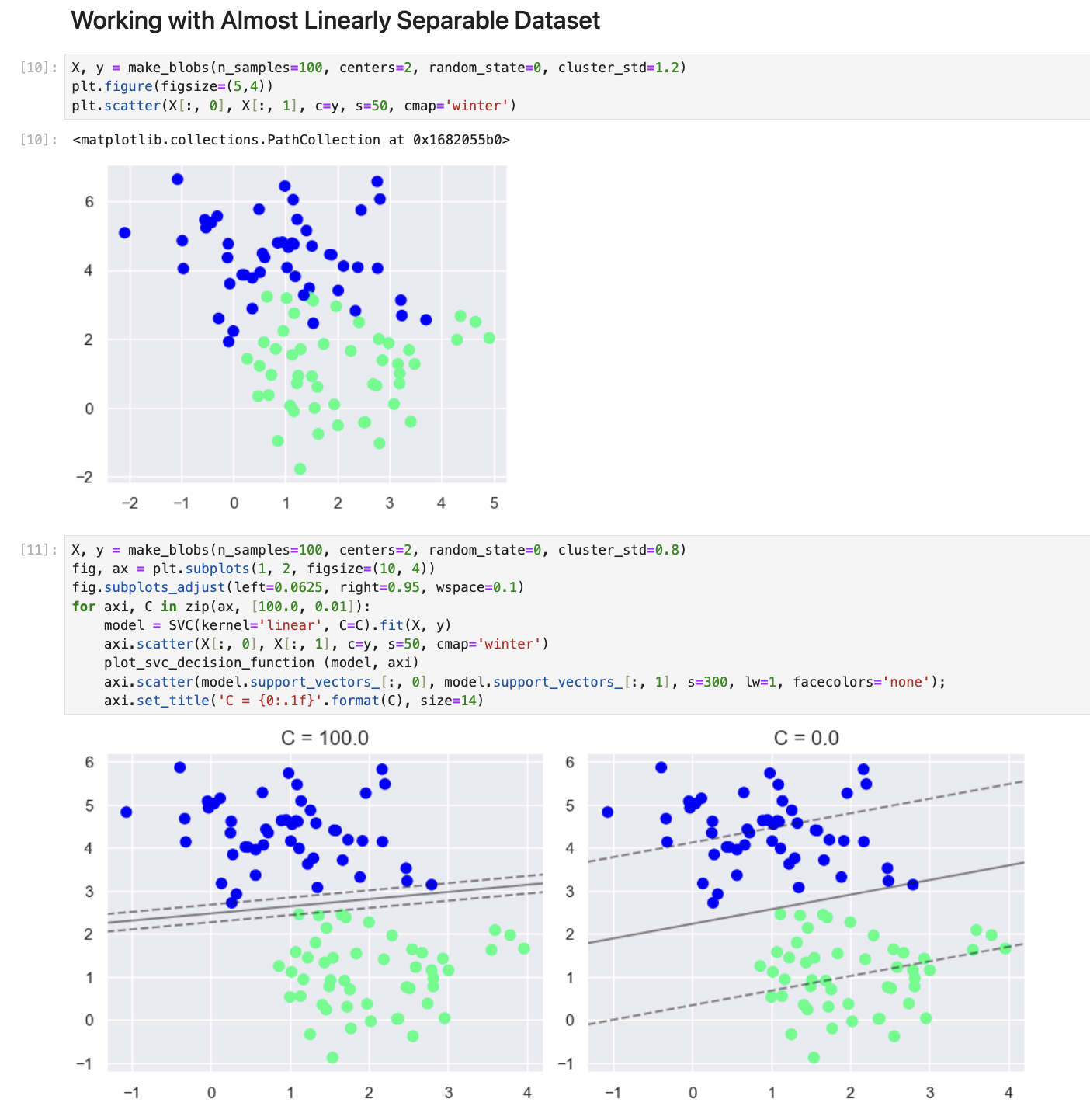
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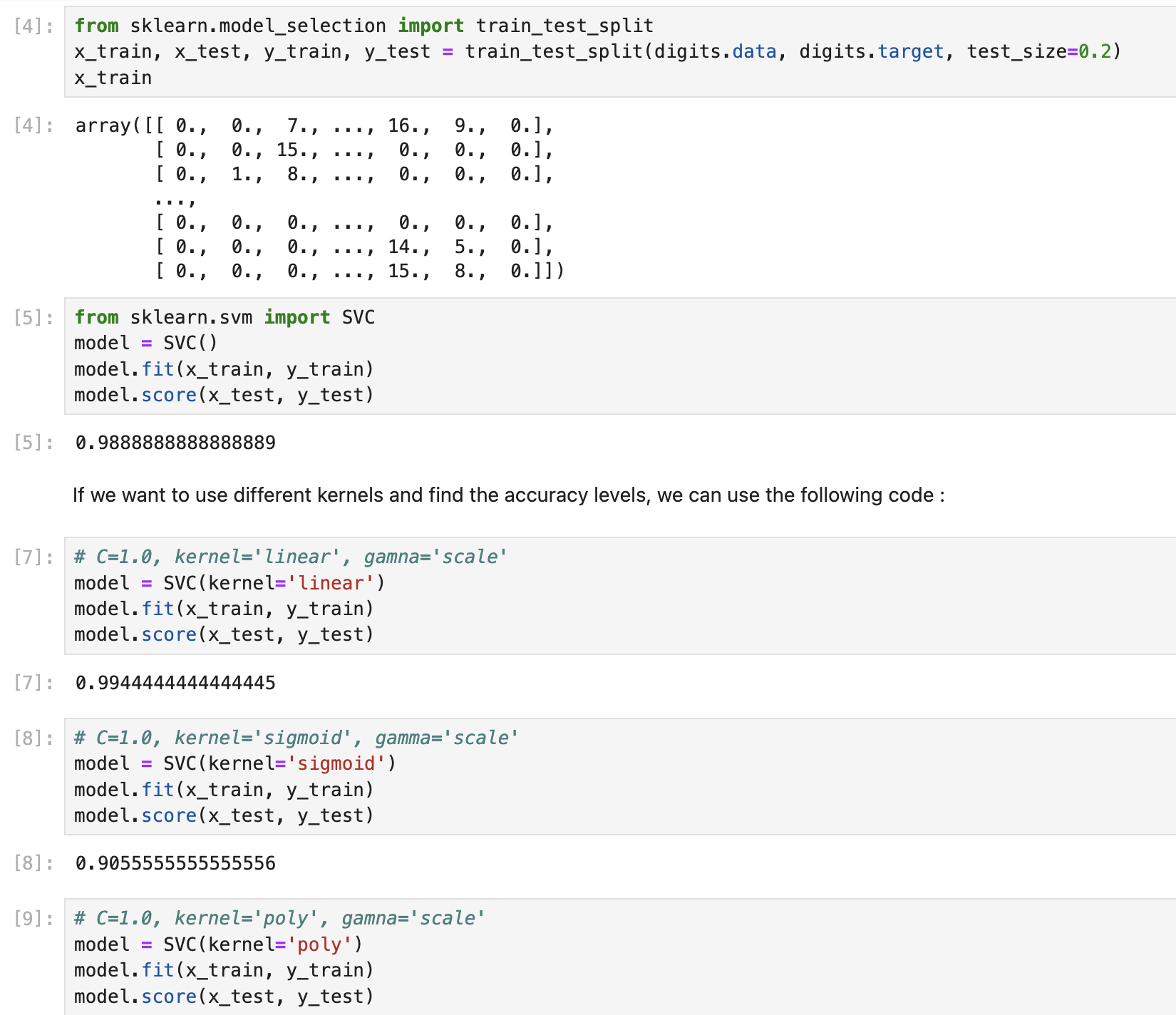
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**7. Implementing SVM program for recognition of handwritten digits.**

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