**GURU JAMBHESHWAR 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 :** |
| **Dr. Narender**  **Dept. of CSE** | **Sarita**  **220010150027**  **B.Tech CSE- AI & ML** |

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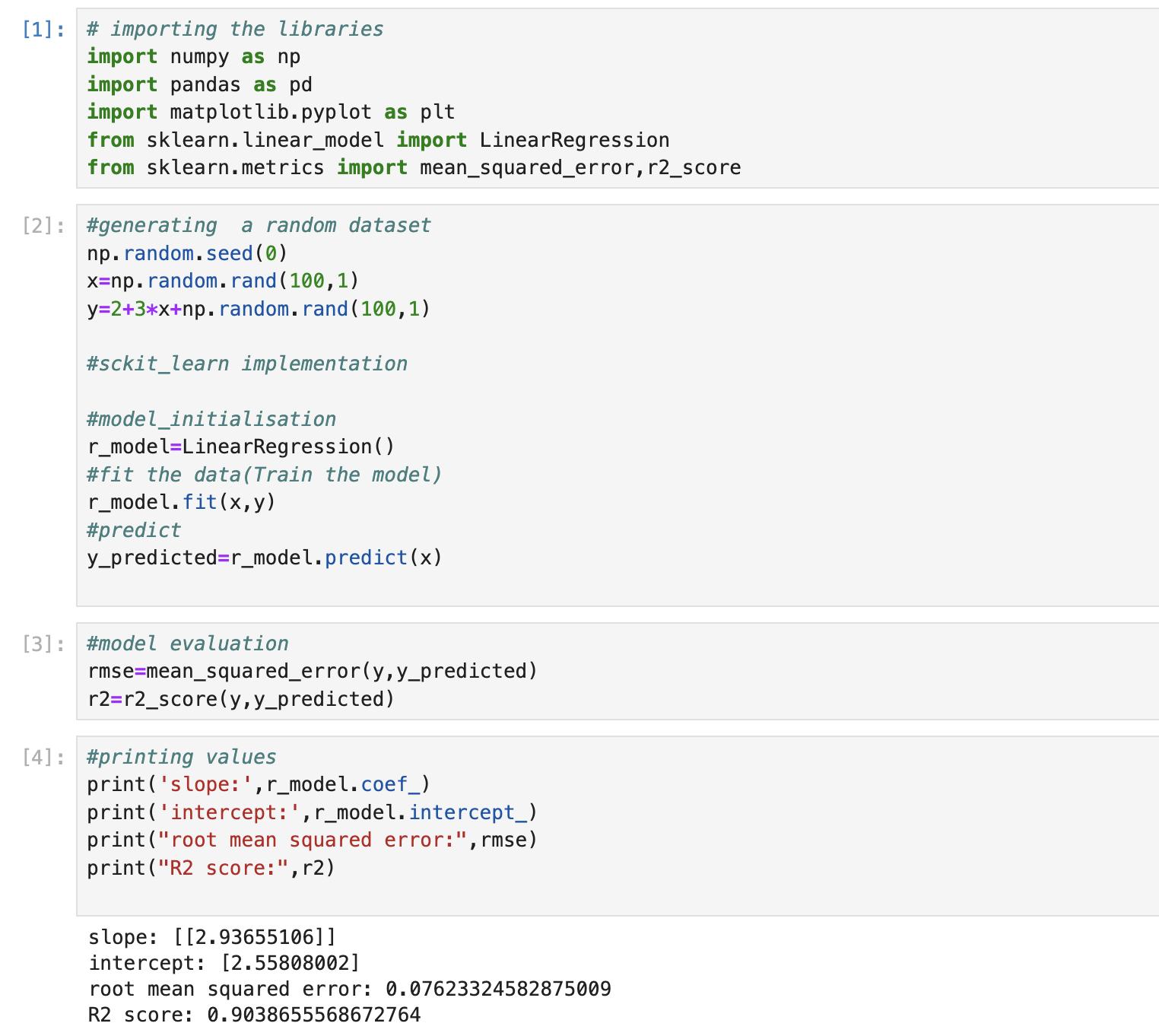
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**b) Implementing linear regression on randomly generated dataset and evaluation of the regression model using R2 score.**



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

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

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**A screenshot of a computer program

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

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**A screenshot of a computer program

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**A screenshot of a computer screen

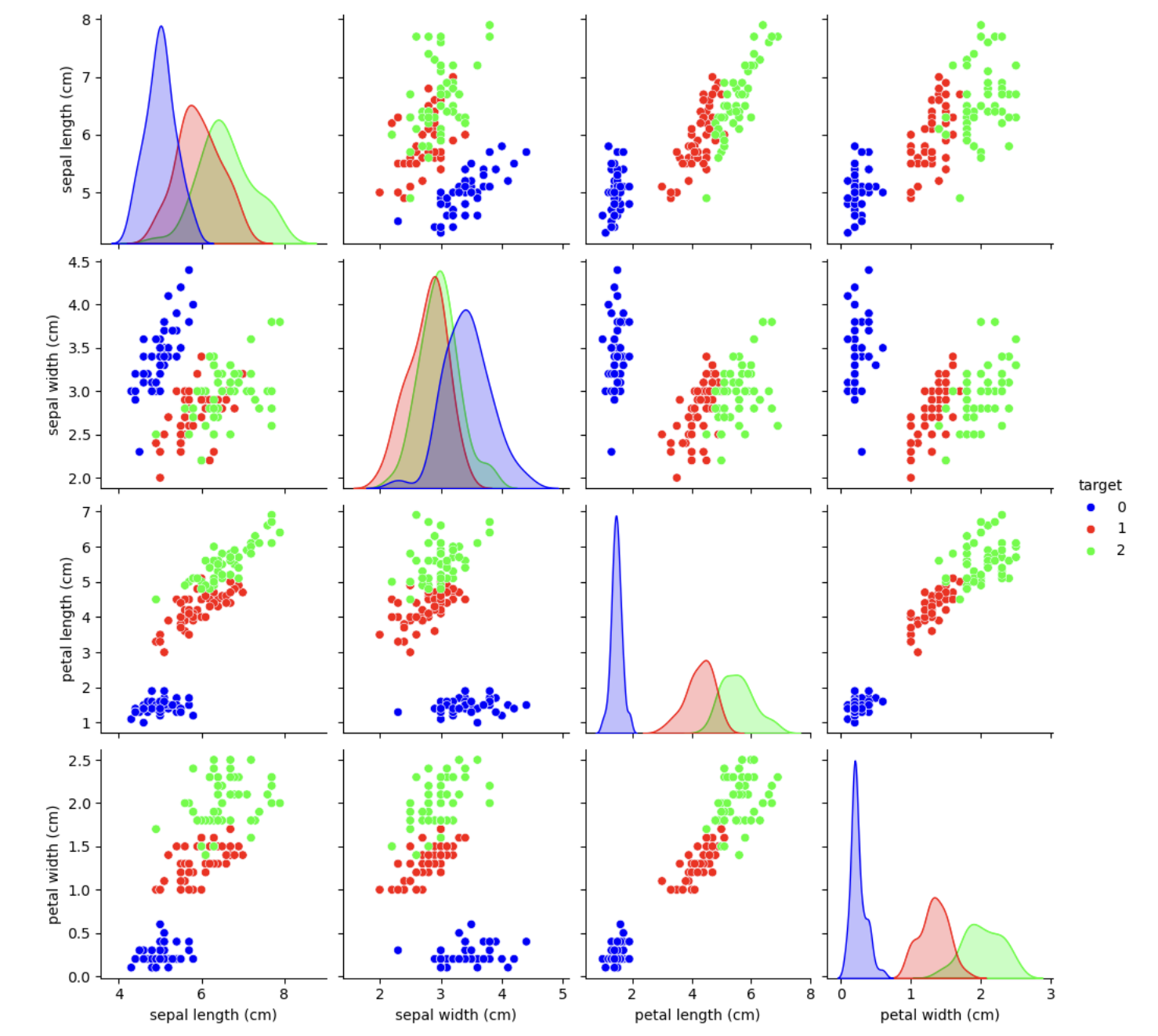
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**5. Implementing classification using SVM :**

1. **For iris dataset using SVC default settings.**

A screenshot of a computer

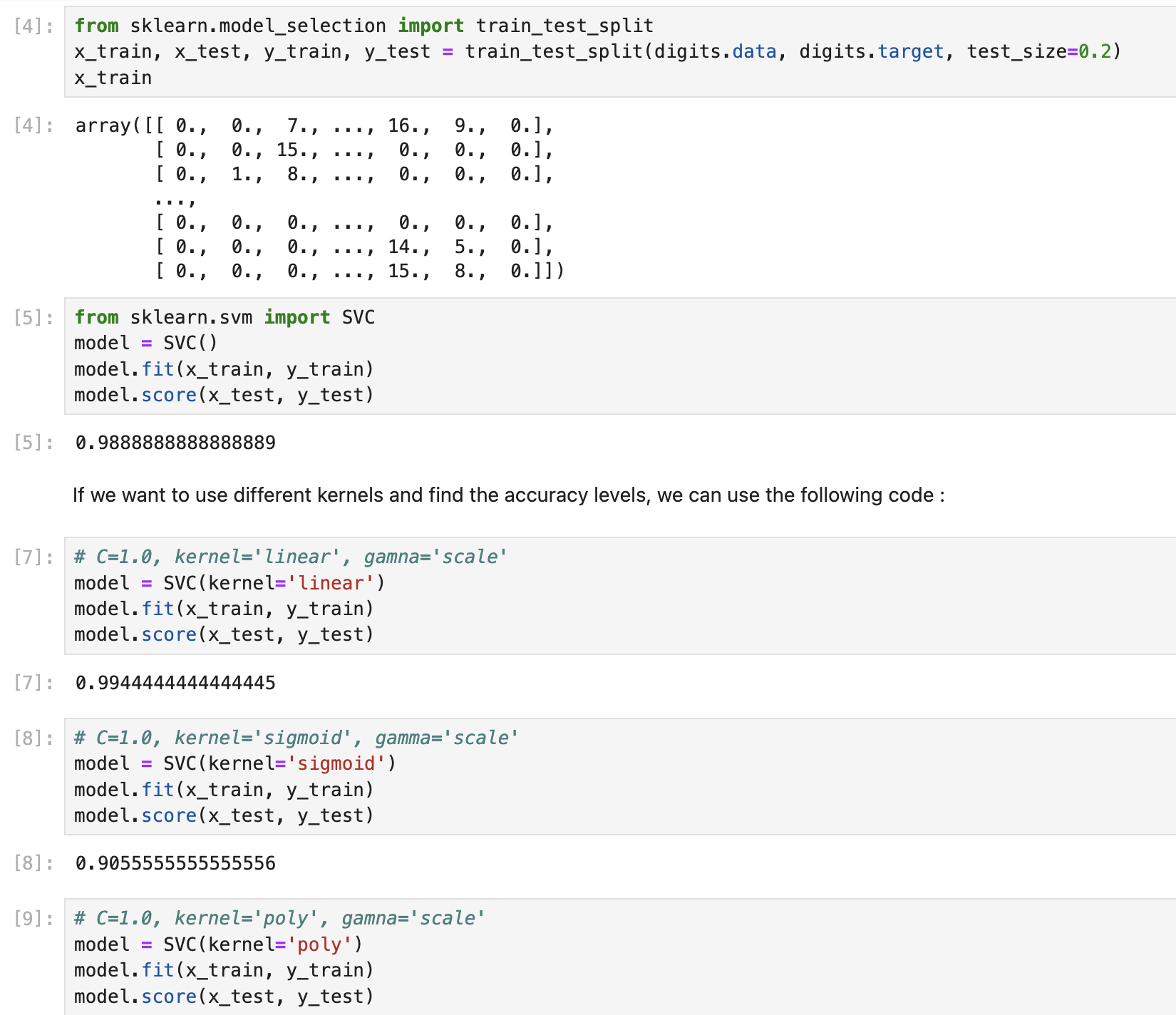
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**b) For recognition of handwritten digits.**

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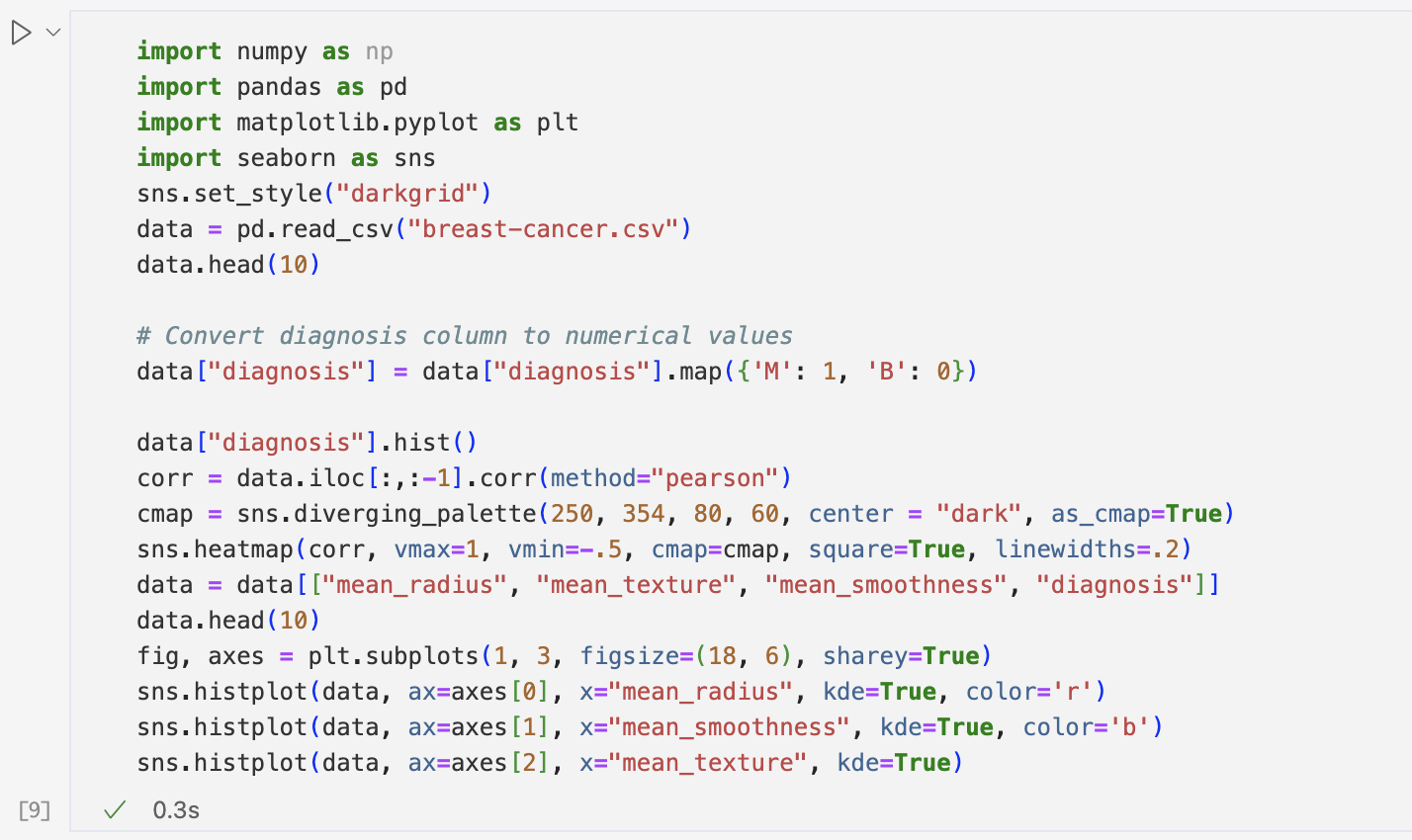
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**6. Implement Naïve Bayes Classifier**

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**A graph with blue lines

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**7. Implementing PCA on Iris Dataset.**

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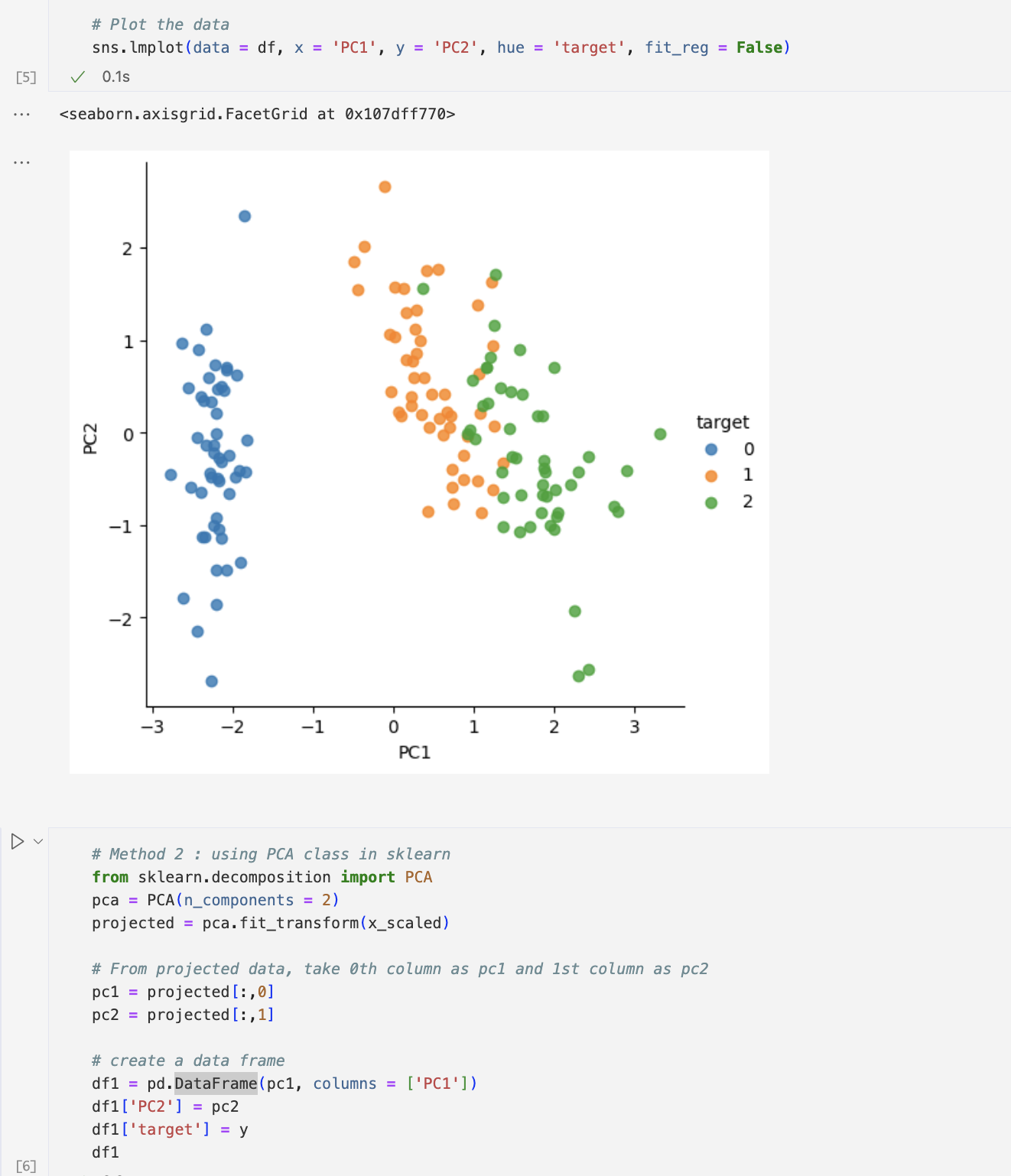
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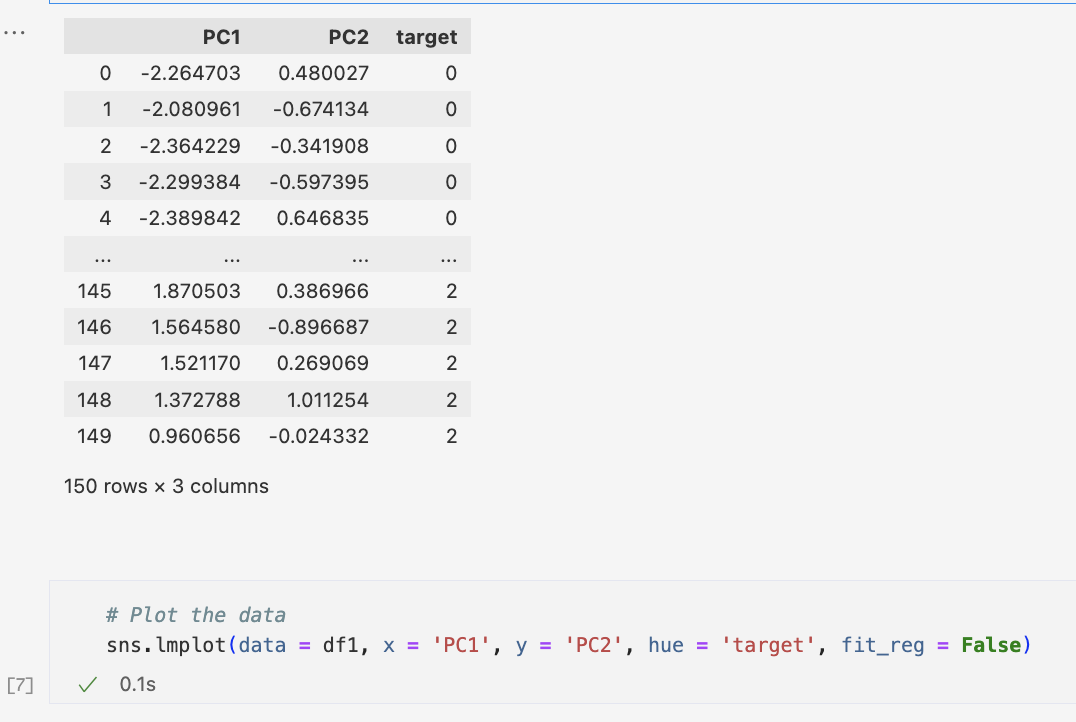
**A screenshot of a computer program

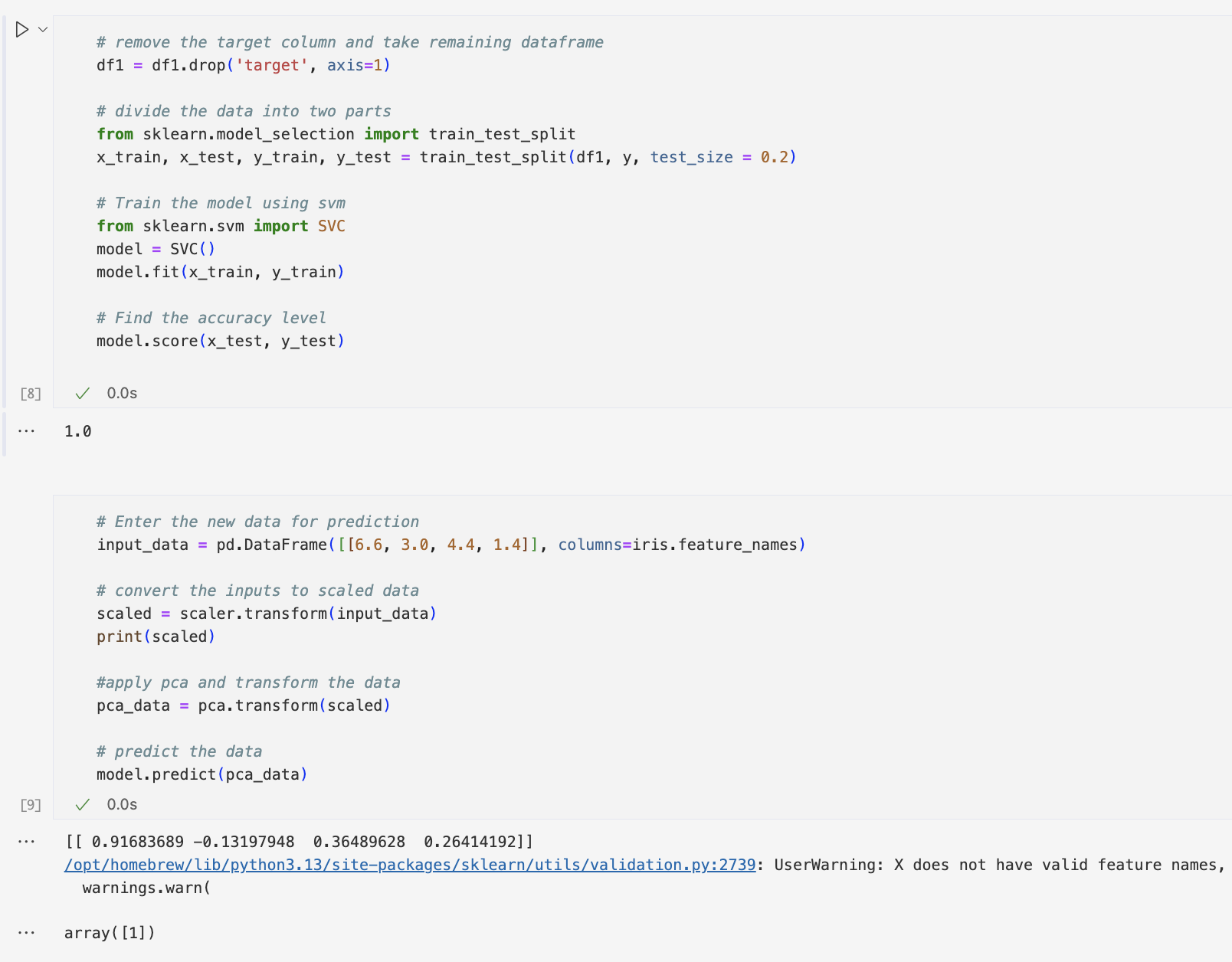
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**8. Implementing Gradient Descent Algorithm**