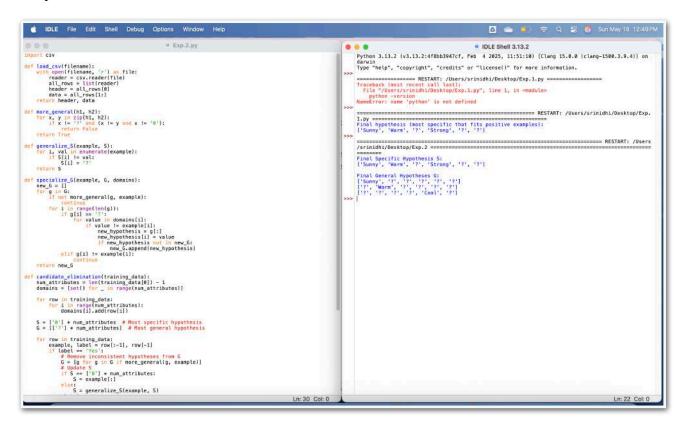
# **ITA0628 Machine Learning - Lab Experiments**

1. Implement and demonstrate the FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples.

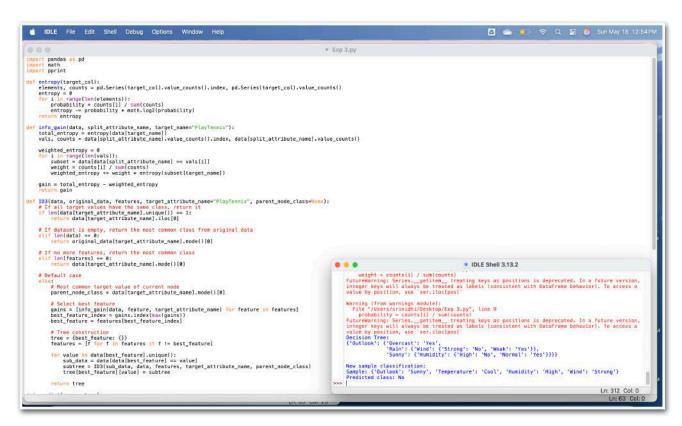
#### Output:

2. For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm in python to output a description of the set of all hypotheses consistent with the training examples

#### Output ScreenShot:

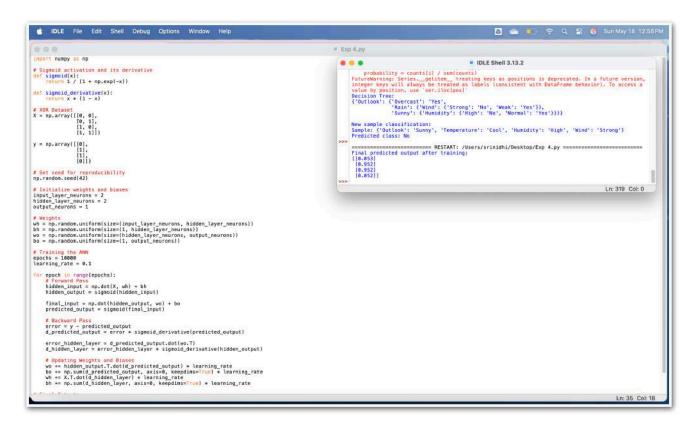


3. Demonstrate the working of the decision tree based ID3 algorithm. Use an appropriate data set for building the decision tree and apply this knowledge to classify a new sample.

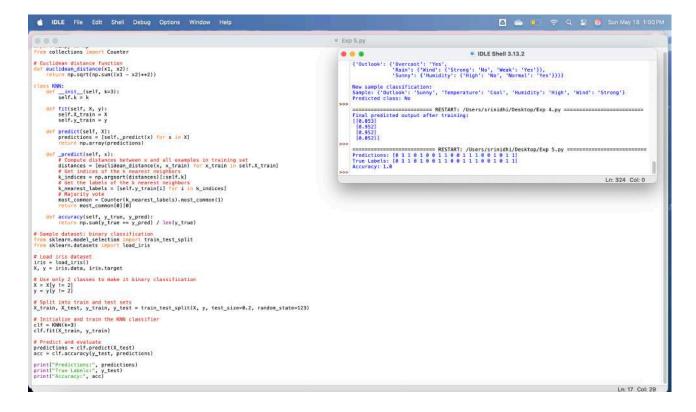


4. Build an Artificial Neural Network by implementing the Backpropagation algorithm and test the same using appropriate data sets.

Output:

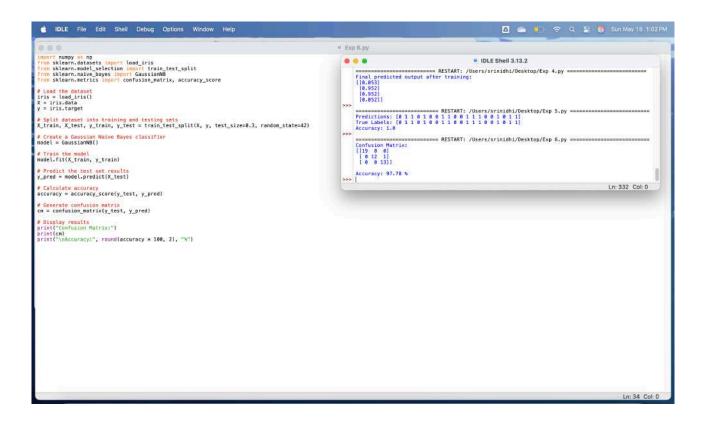


5. Write a program for Implementation of K-Nearest Neighbours (K-NN) in Python.

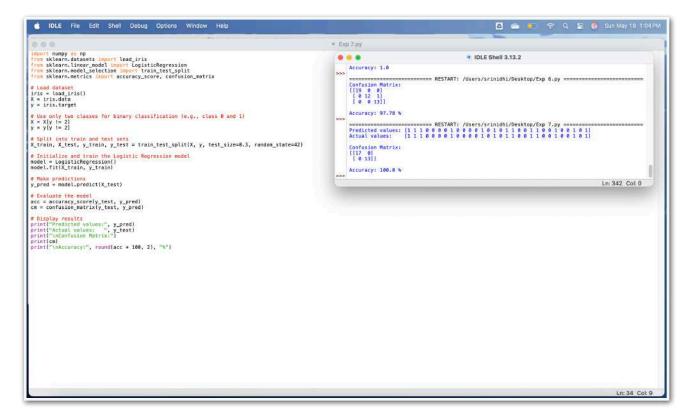


6. Write a program to implement Naïve Bayes algorithm in python and to display the results using confusion matrix and accuracy.

Output:

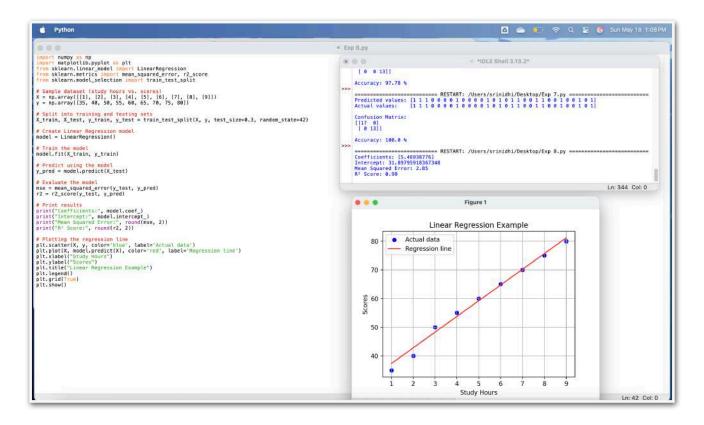


7. Write a program to implement Logistic Regression (LR) algorithm in python

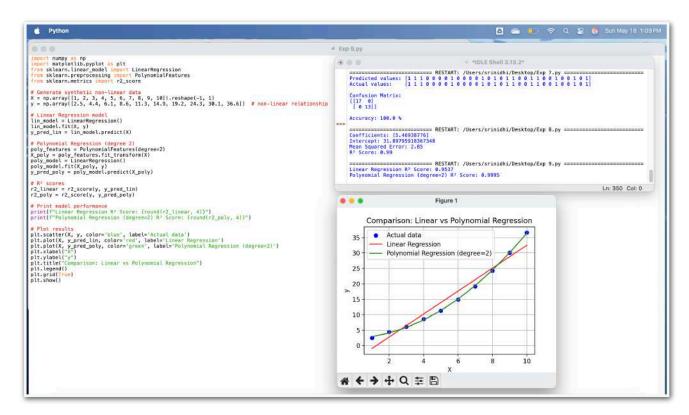


#### 8. Write a program to implement Linear Regression (LR) algorithm in python

Output:

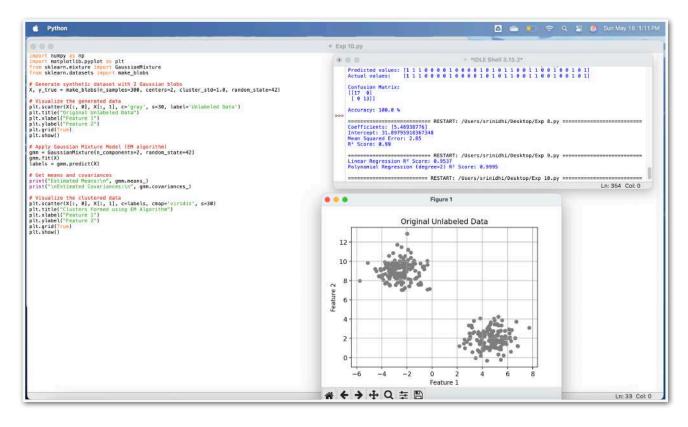


#### 9. Compare Linear and Polynomial Regression using Python

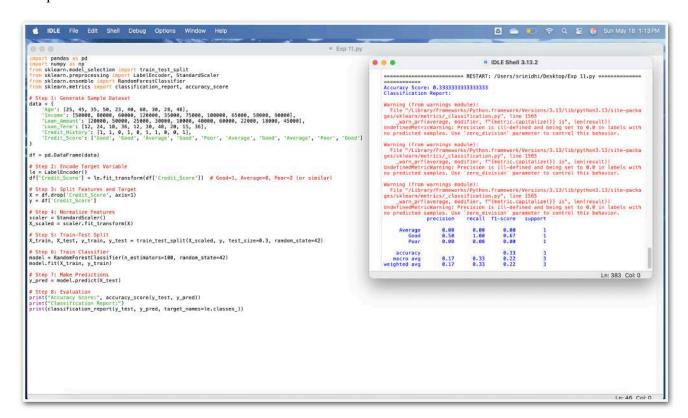


#### 10. Write a Python Program to Implement Expectation & Maximization Algorithm

Output:

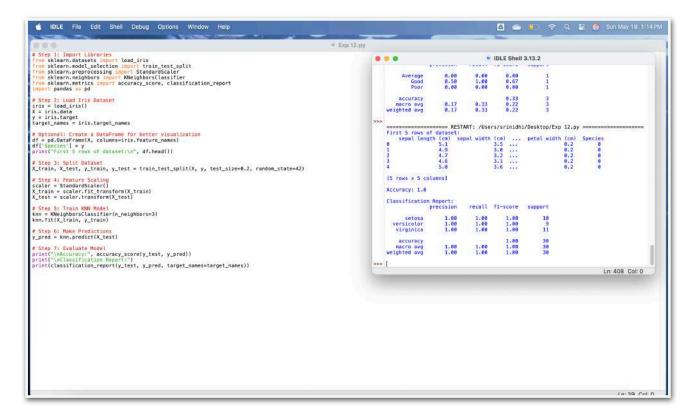


#### 11. Write a program for the task of Credit Score Classification

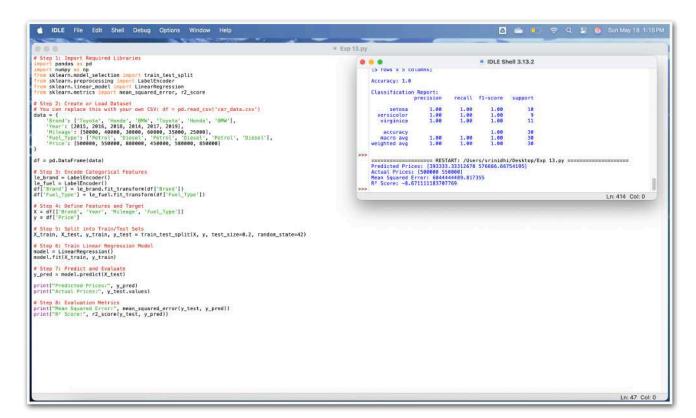


## 12. Implement Iris Flower Classification using KNN

Output:

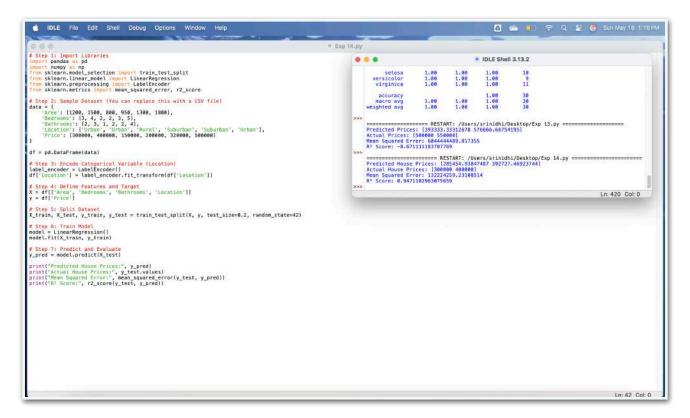


## 13. Implement the Car Price Prediction Model using Python.

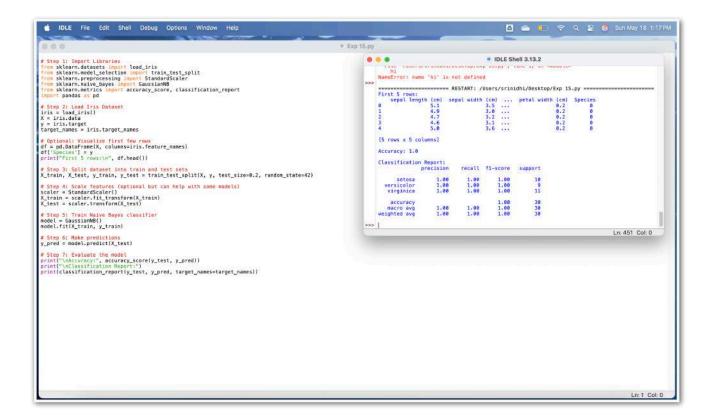


## 14. Implement House price Prediction using appropriate machine learning algorithm

Output:

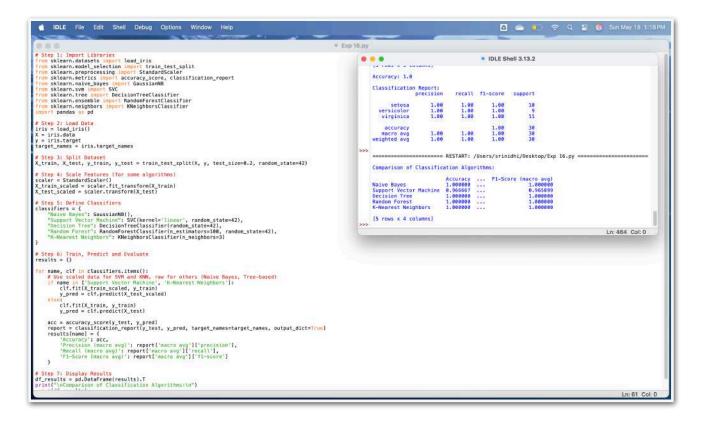


## 15. Implement Iris Flower Classification using Naive Bayes classifier

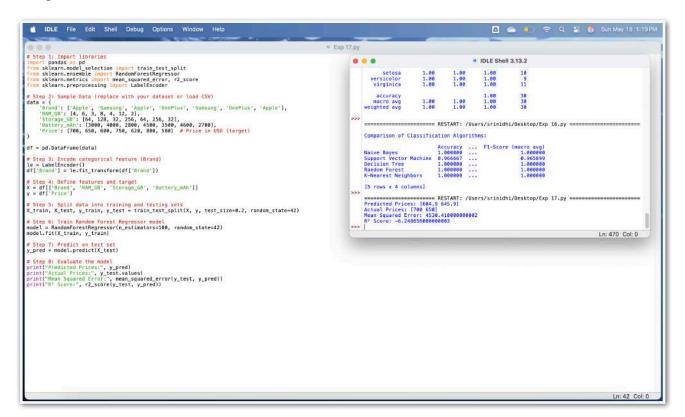


## 16. Compare different types Classification Algorithms and evaluate their performance.

Output:

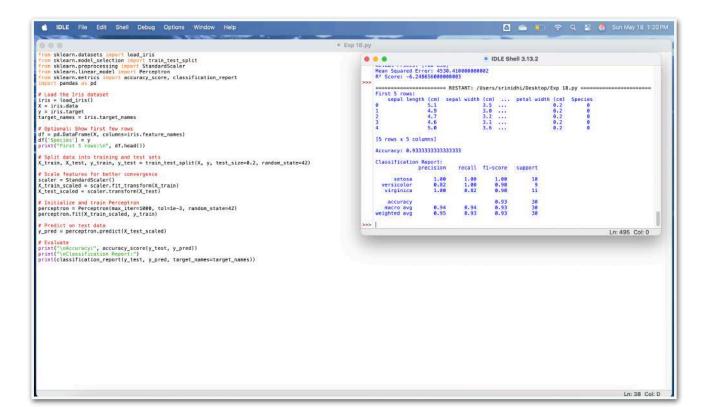


## 17. Implement Mobile Price Prediction using appropriate machine learning algorithm

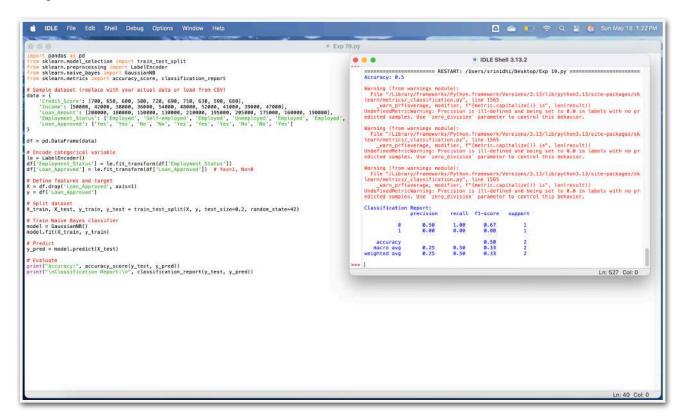


## 18. Implement Perceptron based IRIS classification

Output:



# 19. Implementation of Naive Bayes classification for Bank Loan prediction



## 20. Implement Future Sales Prediction using a suitable machine learning algorithm

