College of Computer Science and Engineering Department of Information System and Technology Data Science and analysis program

University of Jeddah, Saudi Arabia

**Applied Machine Learning CCDS-322 (Lab#1)**

* **Download the attached dataset and apply the following steps:**
  1. Import the dataset and show the table.

A screenshot of a computer

Description automatically generated

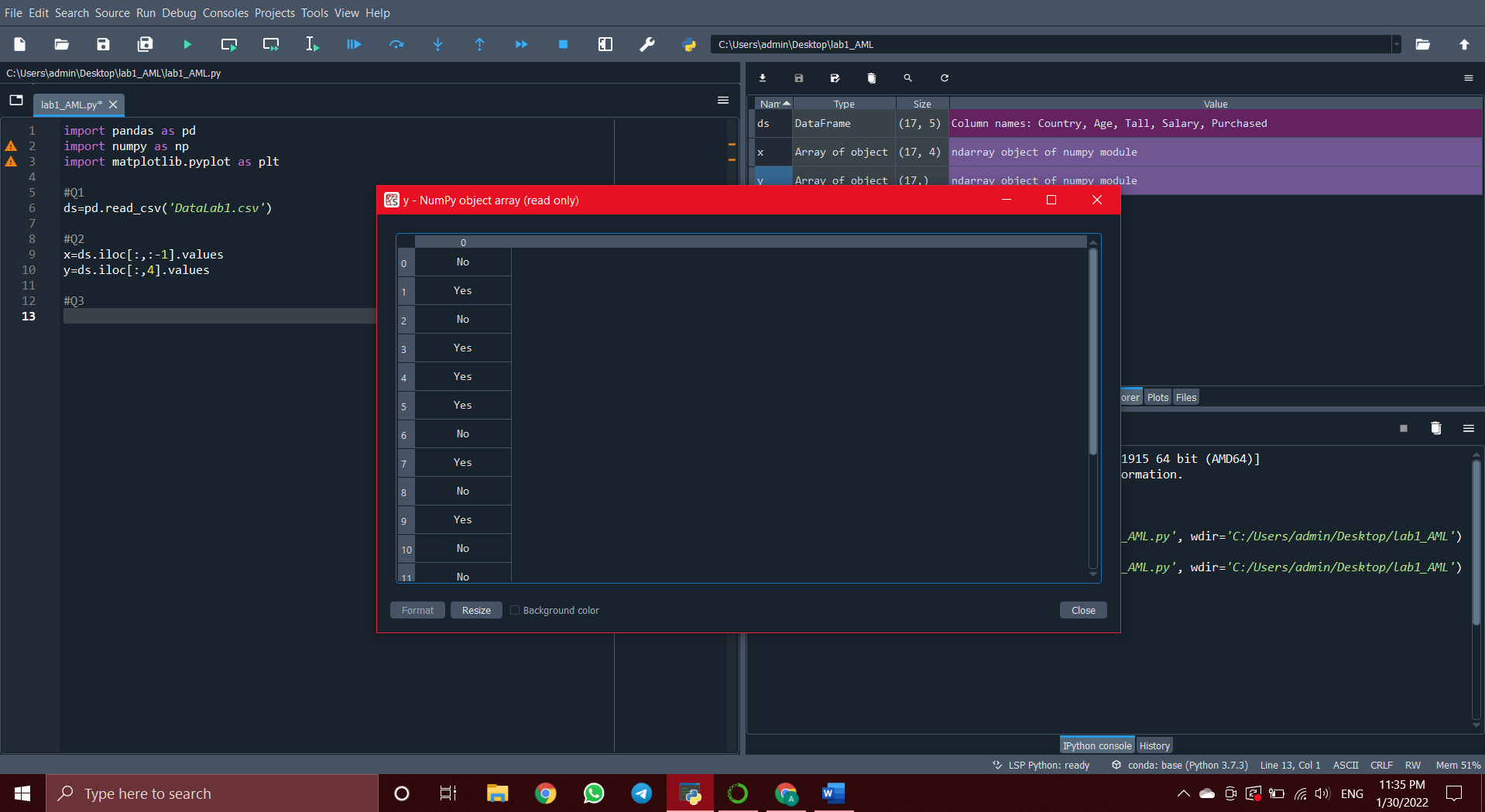
* 1. Separate the Independent and dependent variables.

Independent

A screenshot of a computer

Description automatically generated

Dependent



* 1. Calculate the median for each feature or column that contains a missing value and replace the result for the missing value.

A screenshot of a computer

Description automatically generated

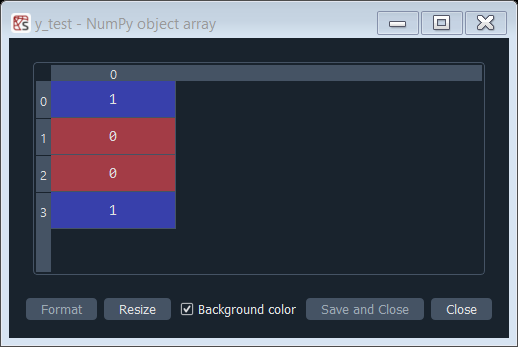
* 1. Encode the categorical data.

A screenshot of a computer

Description automatically generated with medium confidence

* 1. Splitting the dataset into the Training set and Test Set and assign 30% for test set. (random\_state = 0).

Y\_test



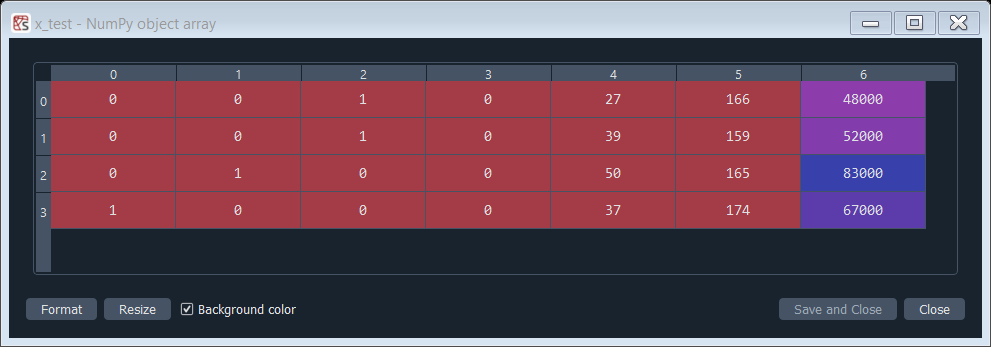
Y\_train



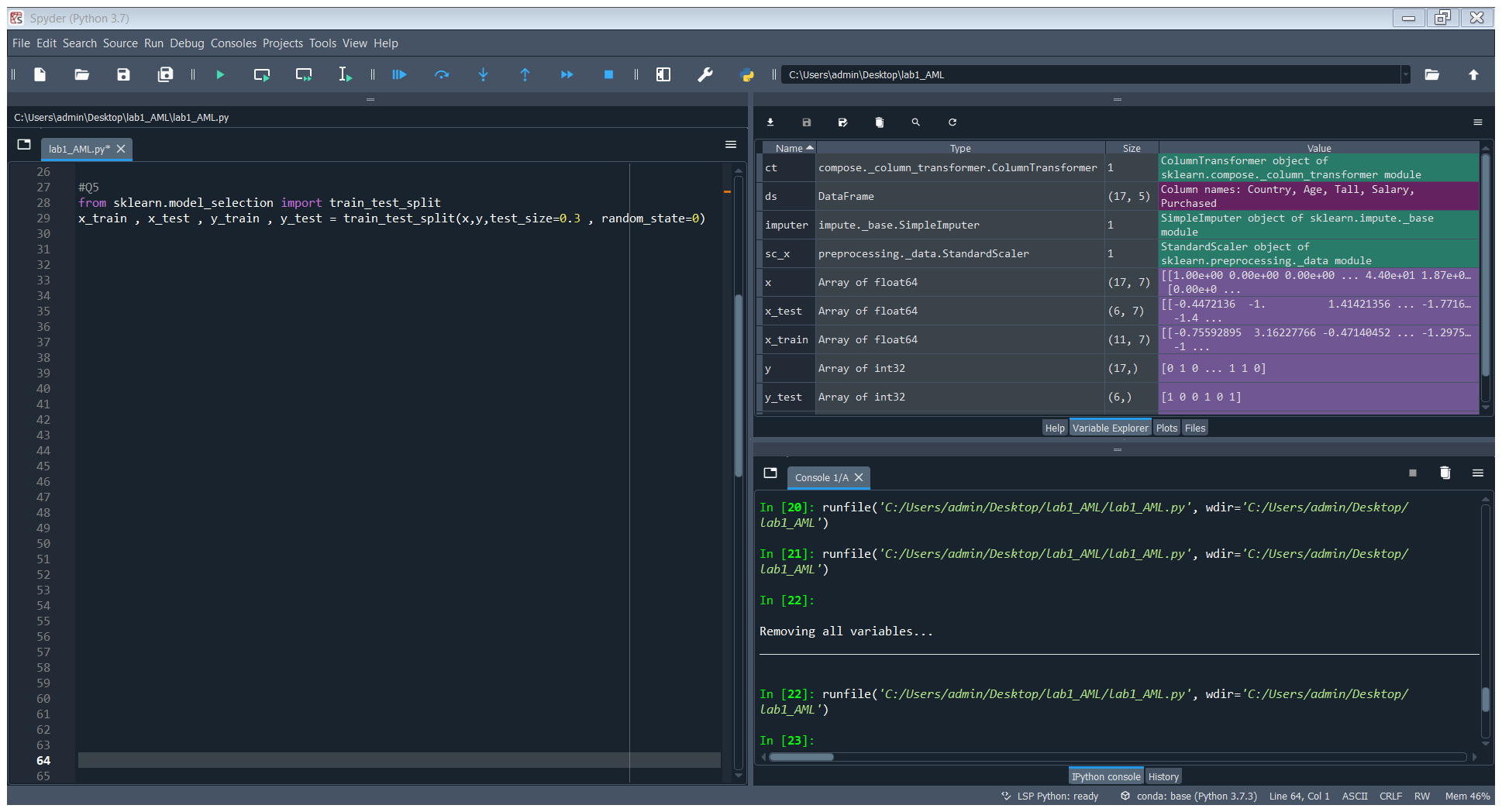
X\_train



X\_test



Code



* 1. Apply the Feature Scaling

**Graphical user interface

Description automatically generated**

Code Graphical user interface, text

Description automatically generated

**Note: Show the results of all required steps in your report.**

**Anan Abdulghaffar 1910912**