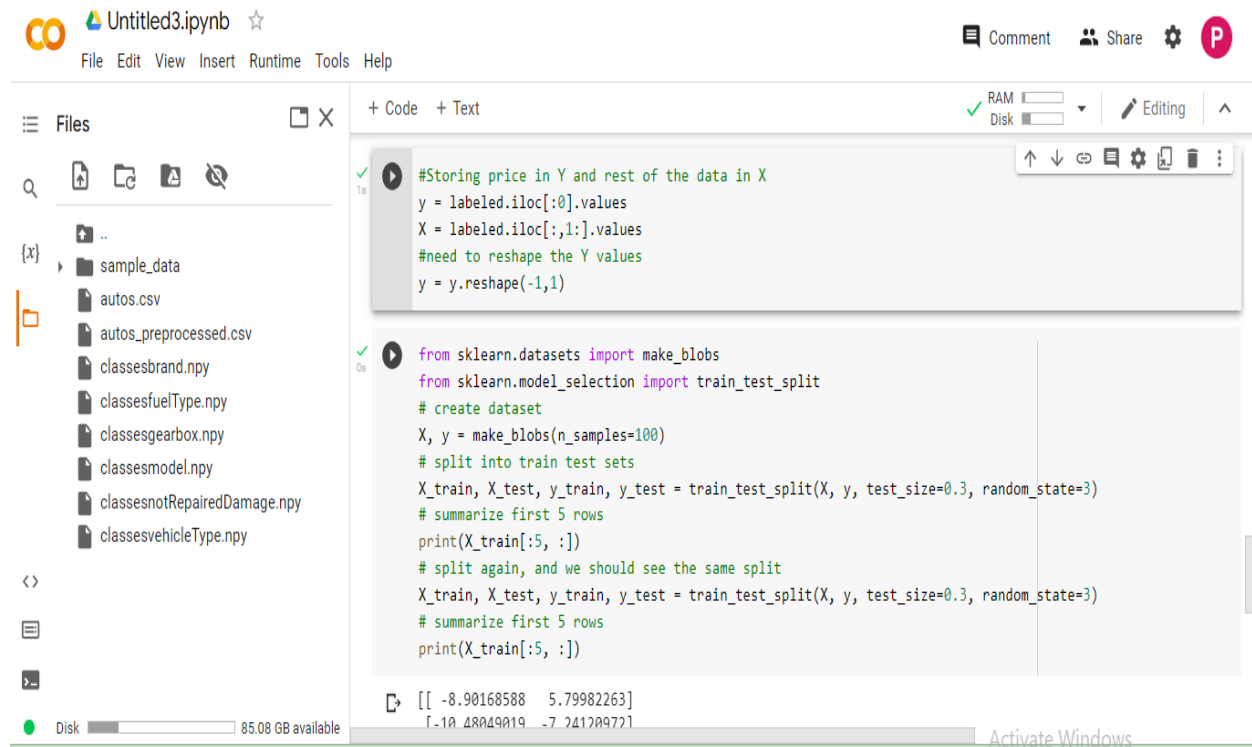


SPLITTING DATA INTO INDEPENDENT AND DEPENDENT VARIABLES



The screenshot displays a Jupyter Notebook environment with the following components:

- Top Bar:** Includes the Jupyter logo, the filename "Untitled3.ipynb", and a star icon. On the right, there are links for "Comment", "Share", and a profile icon.
- File Explorer (Left Panel):** Shows a directory structure with a folder named "sample_data" and several files: "autos.csv", "autos_preprocessed.csv", "classesbrand.npy", "classesfuelType.npy", "classesgearbox.npy", "classesmodel.npy", "classesnotRepairedDamage.npy", and "classesvehicleType.npy".
- Code Editor (Main Area):** Contains two code cells.
 - Cell 1:** Executes successfully (green checkmark). The code stores the price in variable 'y' and the rest of the data in 'X', then reshapes 'y' into a column vector.

```
#Storing price in Y and rest of the data in X
y = labeled.iloc[:,0].values
X = labeled.iloc[:,1:].values
#need to reshape the Y values
y = y.reshape(-1,1)
```
 - Cell 2:** Executes successfully (green checkmark). It imports 'make_blobs' and 'train_test_split' from sklearn, creates a dataset of 100 samples, splits it into training and testing sets (70% train, 30% test), and prints the first 5 rows of the training data.

```
from sklearn.datasets import make_blobs
from sklearn.model_selection import train_test_split
# create dataset
X, y = make_blobs(n_samples=100)
# split into train test sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=3)
# summarize first 5 rows
print(X_train[:5, :])
# split again, and we should see the same split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=3)
# summarize first 5 rows
print(X_train[:5, :])
```
- Output (Bottom):** Displays the output of the second cell, showing the first 5 rows of the training data as a 5x2 array.

```
[[ -8.90168588  5.79982263]
 [ -1.0 48049019  -7.74120972]
```
- Status Bar (Bottom):** Shows "Disk" usage and "85.08 GB available". An "Activate Windows" watermark is visible in the bottom right corner.