

# SIMPLILEARN: Lab Demo | Data Science with Python

## 1. Path to locate the Lab:

LMS account > Course Icon > Projects > Lab Access > Python

The screenshot shows the SIMPLILEARN LMS interface. The top navigation bar includes 'BACK', 'Data Science with Python', 'HELP & SUPPORT', and 'LEARNING TOOLS'. The left sidebar contains icons for 'SYLLABUS', 'CLASSES', 'PROJECTS', and 'CERTIFICATE'. The main content area shows the 'Lab Access' path highlighted in yellow. Below this, there's a 'Services' section with a 'Python' icon. On the right, there's a large graphic with a laptop and various programming icons (PHP, JAVA, C++, etc.) and a text box that reads: 'PLEASE READ THIS INFORMATION CAREFULLY BEFORE YOU START LEARNING'. Below this, it says: 'This is virtual lab environment for you to work on your live project. There is no fun learning data science without actually applying it. So how do we go about it? Python environment Lab is the solution. Lab plays an integral part of the course. It not only helps you understand the concepts and algorithms better but also prepares you to implement the concepts at th...'. A 'View more' link is at the bottom.

<https://lms.simplilearn.com/cloudlabs/index/eid/2772/lab/python>

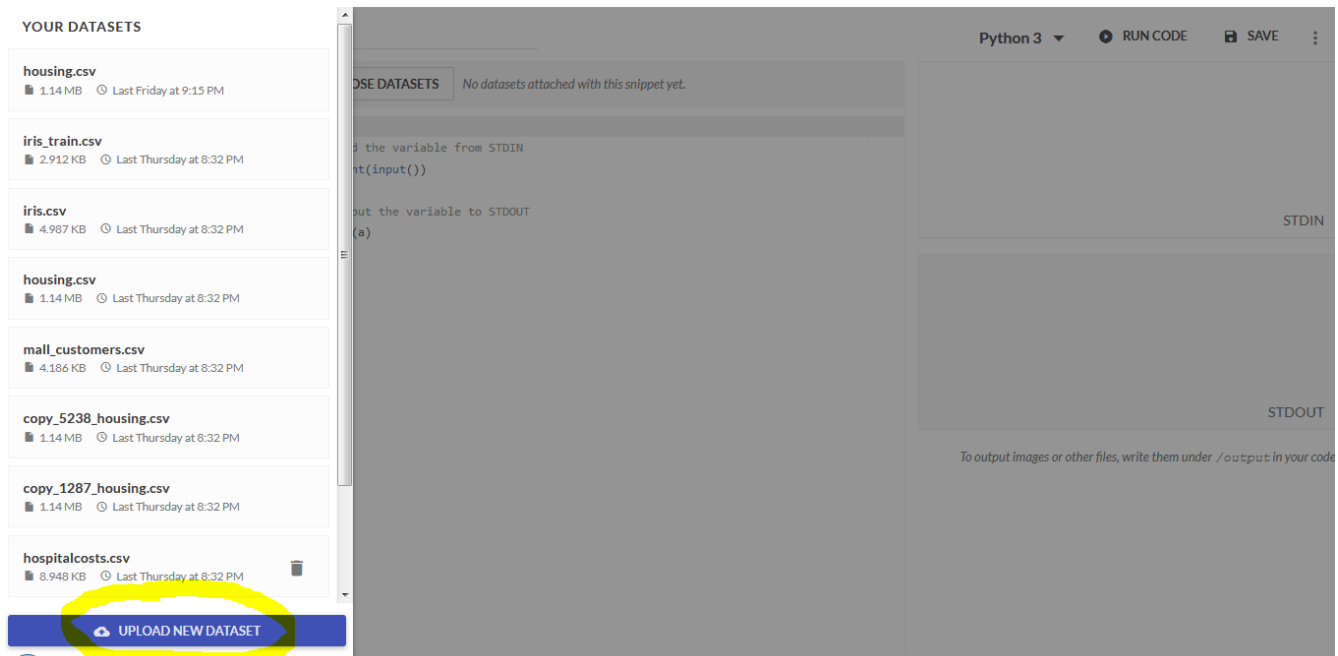
## 2. How to upload the dataset:

Click on Your datasets > Upload New Dataset > Select a file from your local Machine

The screenshot shows the SIMPLILEARN LMS interface for the 'housing' dataset. The top navigation bar includes 'YOUR SNIPPETS', '+ housing', 'Python 3', 'RUN CODE', 'SAVE', and a menu icon. The main content area shows the 'housing' dataset with a 'CHOOSE DATASETS' button and a note: 'No datasets attached with this snippet yet.' Below this, there's a code editor with the following code: 

```
1
2 # Read the variable from STDIN
3 a = int(input())
4
5 # Output the variable to STDOUT
6 print(a)
7
```

 On the right, there's a 'STDIN' input field and a 'STDOUT' output field. Below these, there's a note: 'To output images or other files, write them under /output in your code.' At the bottom, there's a 'YOUR DATASETS' button and a 'Powered by DoSelect' logo.

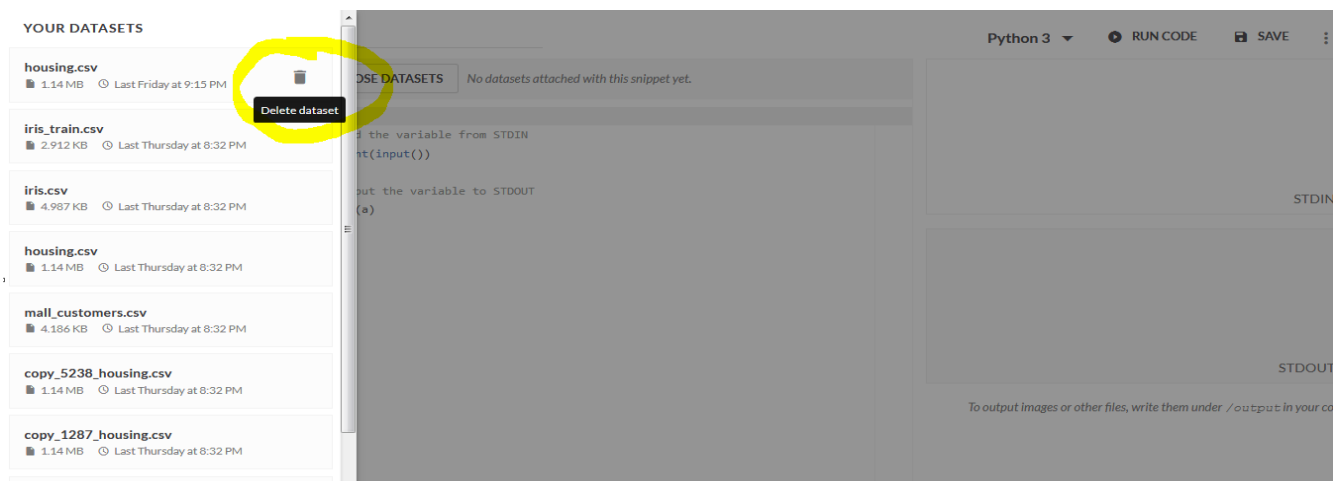


\*\*\*Note – Maximum dataset size supported is 20 MB. If your dataset size exceeds the limit kindly follow the steps mentioned below:

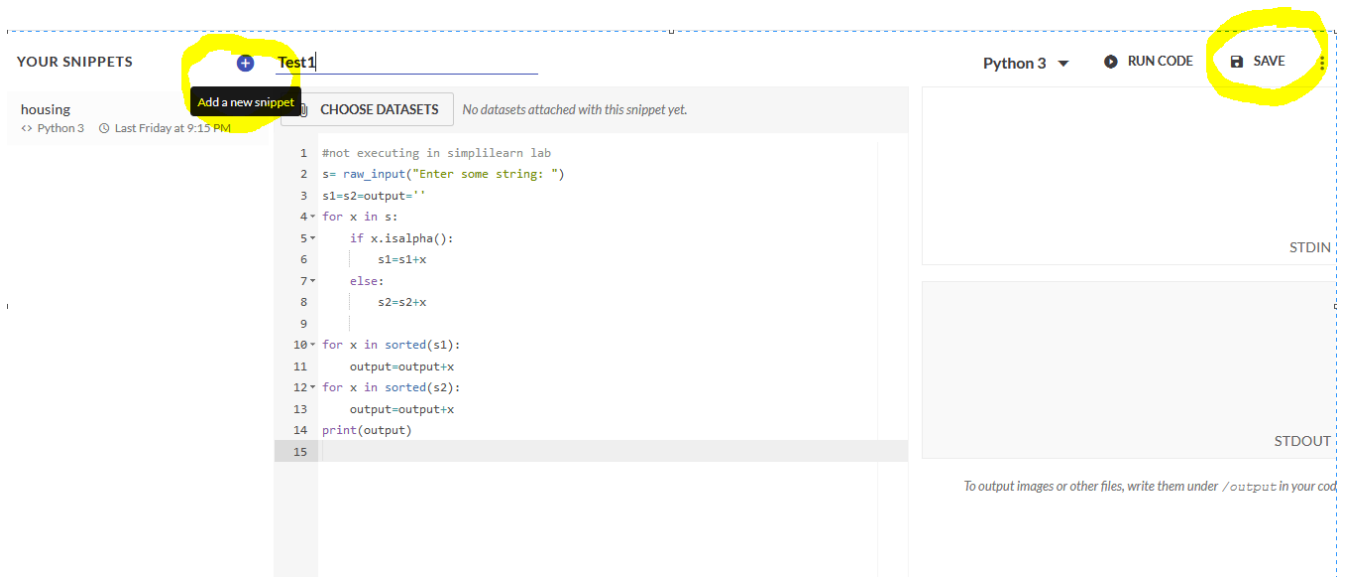
- Upload the dataset on <http://pinetools.com/split-files>
- Split the dataset into 2 parts and download locally.
- Upload the 2 parts in the lab using the `Upload Datasets` option
- To concat and use the data from 2 input files use the code mentioned below:

```
import pandas as pd
data1 = pd.read_table("/data/ratings.dat.000", sep="\\:\\:", header=None, engine='python')
data2 = pd.read_table("/data/ratings.dat.001", sep="\\:\\:", header=None, engine='python')
data = data1.append(data2)
```

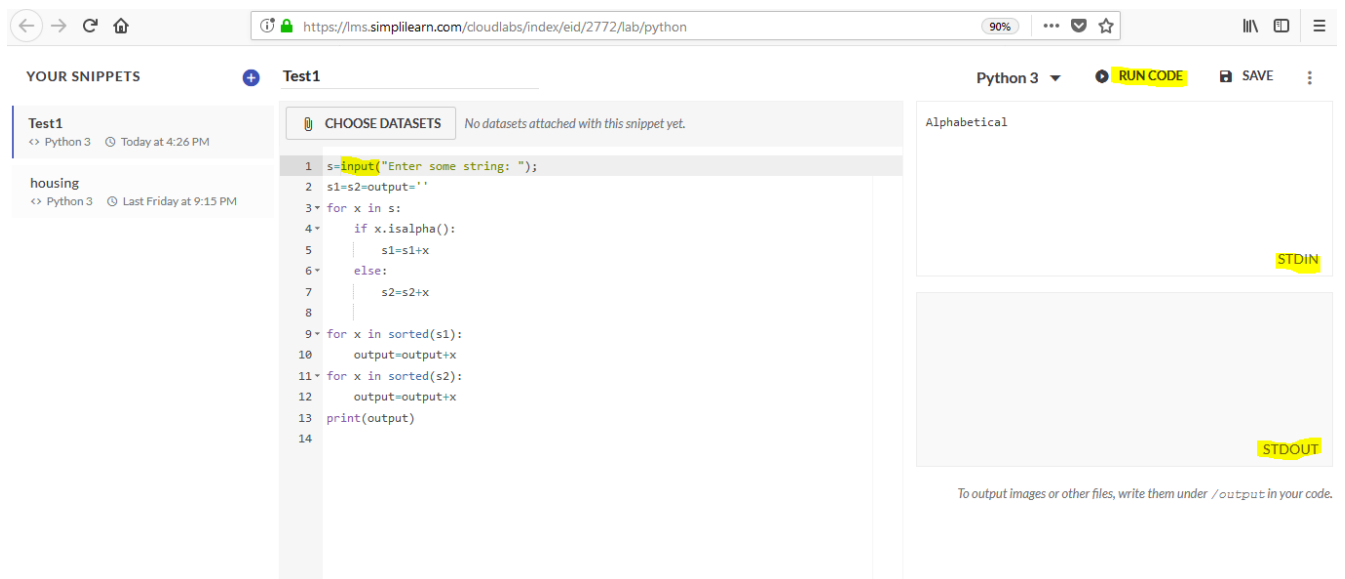
### 3. How to delete a dataset from the available datasets in the lab:



#### 4. How to create a new Python-Script and save it:



#### 5. How to Run your code:



#### Lab Demo:

<https://community.simplilearn.com/threads/simplilearn-lab-demo-python.39613/>

The above mentioned community thread will guide, how to choose dataset for your Python Script and Run your code.