

ANLT5010 – Week 1

Assignment 1 Tutorial

SAS Studio



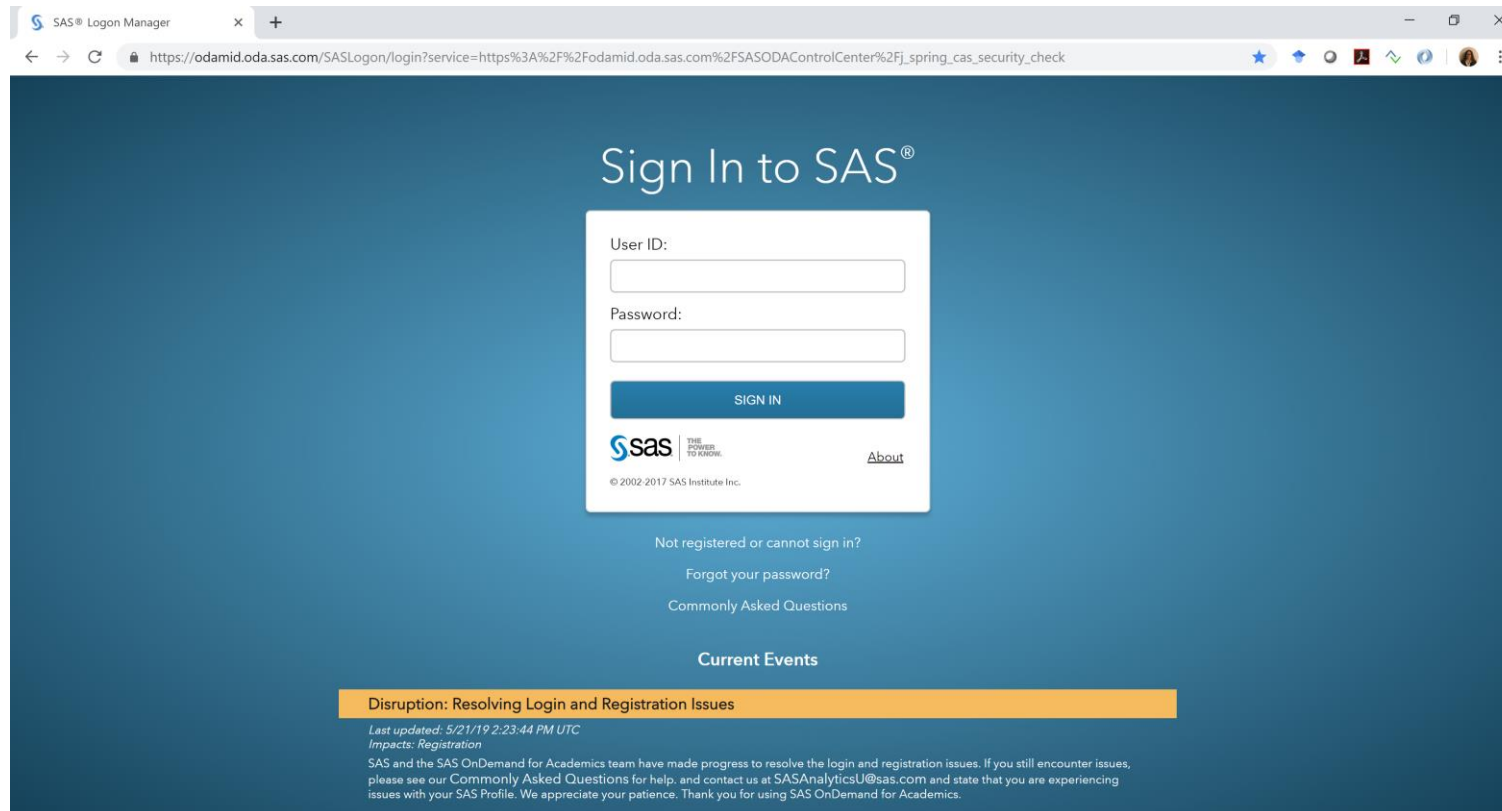
Dataset

- Download the cf_ANLT5010_W1_WaitTimes.csv file from the Week 1 Welcome announcement in the course announcements or the Week 1 assignment area.



Access the SAS OnDemand for Academics Control Center

<https://odamid.oda.sas.com/SASODAControlCenter>



The screenshot shows a web browser window with the title 'SAS® Logon Manager'. The address bar displays the URL: https://odamid.oda.sas.com/SASLogon/login?service=https%3A%2F%2Fodamid.oda.sas.com%2FSASODAControlCenter%2Fj_spring_cas_security_check. The main content area has a dark blue background with the text 'Sign In to SAS®' in white. Below this, there is a white login form with two input fields: 'User ID:' and 'Password:'. A blue 'SIGN IN' button is positioned below the password field. Under the button is the SAS logo with the tagline 'THE POWER TO KNOW.' and a link labeled 'About'. At the bottom of the form, it says '© 2002-2017 SAS Institute Inc.'. Below the login form, there are links for 'Not registered or cannot sign in?', 'Forgot your password?', and 'Commonly Asked Questions'. Further down, there is a section titled 'Current Events' with an orange banner that reads 'Disruption: Resolving Login and Registration Issues'. Below the banner, it states 'Last updated: 5/21/19 2:23:44 PM UTC' and 'Impacts: Registration'. The final paragraph mentions that SAS and the SAS OnDemand for Academics team have made progress to resolve login and registration issues, and provides contact information for further assistance.



SAS OnDemand for Academics (SODA) Control Center

The screenshot shows the SAS OnDemand for Academics (SODA) Control Center dashboard. The browser address bar displays `https://odamid.oda.sas.com/SASODAControlCenter/`. The page header includes the SAS logo and the text "SAS OnDemand for Academics Control Center - United States". A blue navigation bar at the top contains the word "Dashboard" and a user profile for "Stefanie Reay".

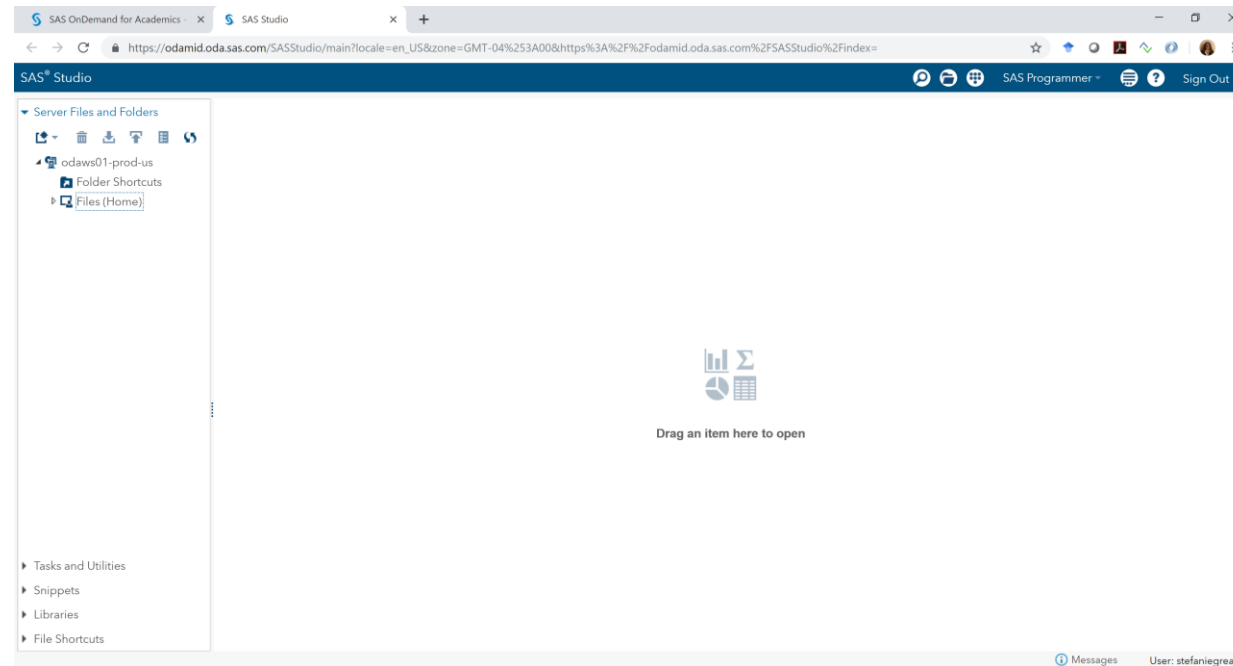
The main content area is divided into several sections:

- Current Events** (click entry for details):
 - Resolving Login and Registration Issues**: Last updated: May 21, 2019 14:23 UTC. Impacts: Registration, Login Page.
- Planned Events** (click entry for details):
 - Scheduled Maintenance on Tuesday, July 16, 8:30 - 10:00 am EDT**: Last updated: Jul 09, 2019 17:38 UTC. Scheduled start time: Jul 16, 2019 12:30 UTC. Scheduled end time: Jul 16, 2019 14:00 UTC.
- Applications** (tabbed view):
 - SAS Studio**: Write and run SAS code with a Web-based SAS development environment. Actions: Clear my saved tabs.
 - SAS Enterprise Guide**: Deliver the power of SAS from an easy-to-use, point-and-click interface. (Download Required)
 - JMP access to SAS Servers (U.S. users only)**: Statistical discovery software. Users must have a copy of JMP software. (Configuration Steps Required)
 - SAS Enterprise Miner**: Reveal valuable insights with powerful data mining software. (Configuration Steps Required)
- Reference**:
 - Support Site
 - Step-by-Step Registration Guides
 - User's Guide
 - Commonly Asked Questions
 - Status Page
- Quotas** (learn more):
 - Home Directory (4.4MB/5120MB)**: 0% usage.
 - Course Directory (207.0MB/3072MB)**: 7% usage.
- Notices**:
 - German, Spanish and French Locale Users Impacted by a SAS Studio Issue**: Last updated: Jun 18, 2019 15:02 UTC. Importance: High. Impacts: SAS Studio.

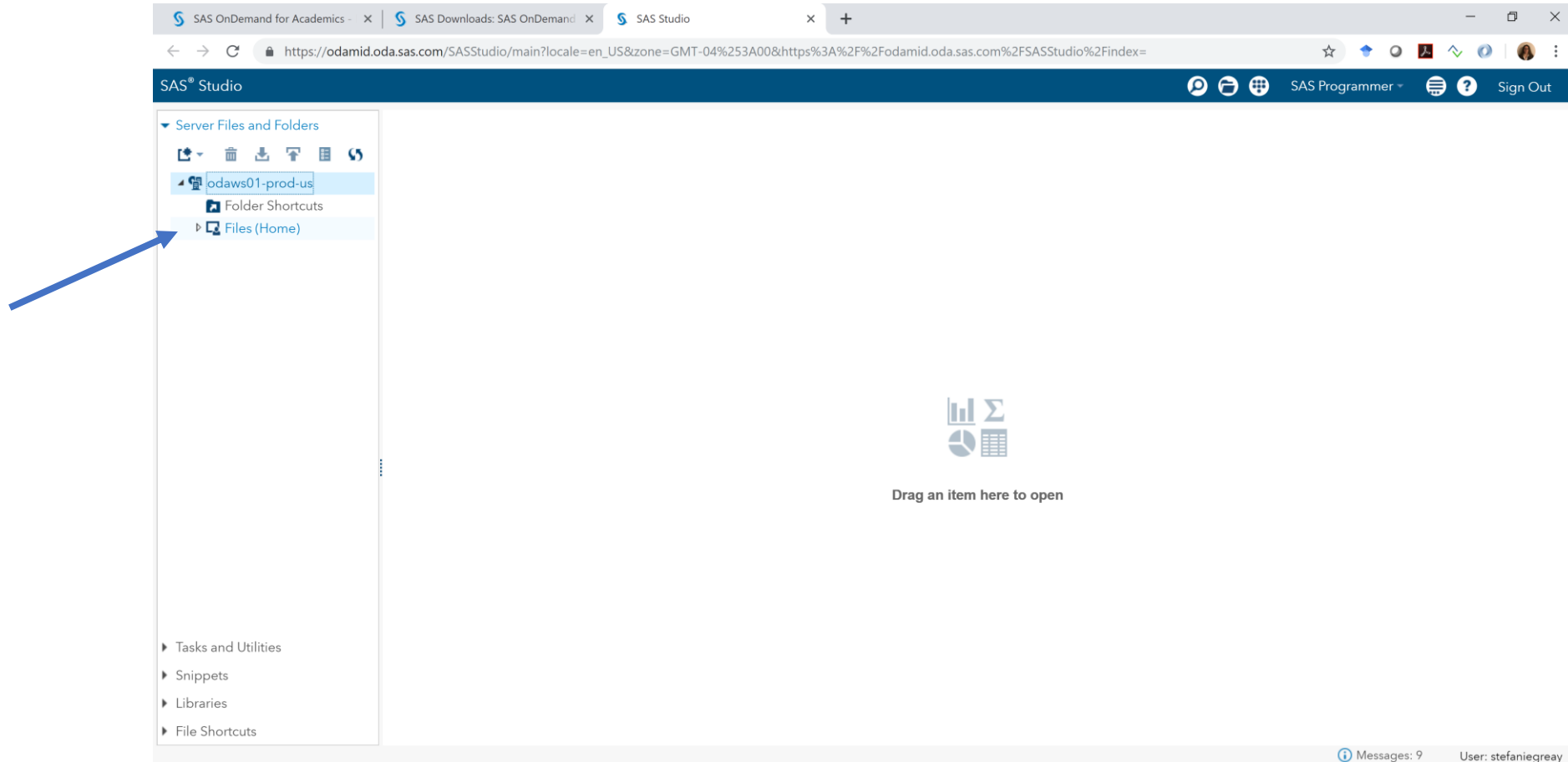


SAS Studio

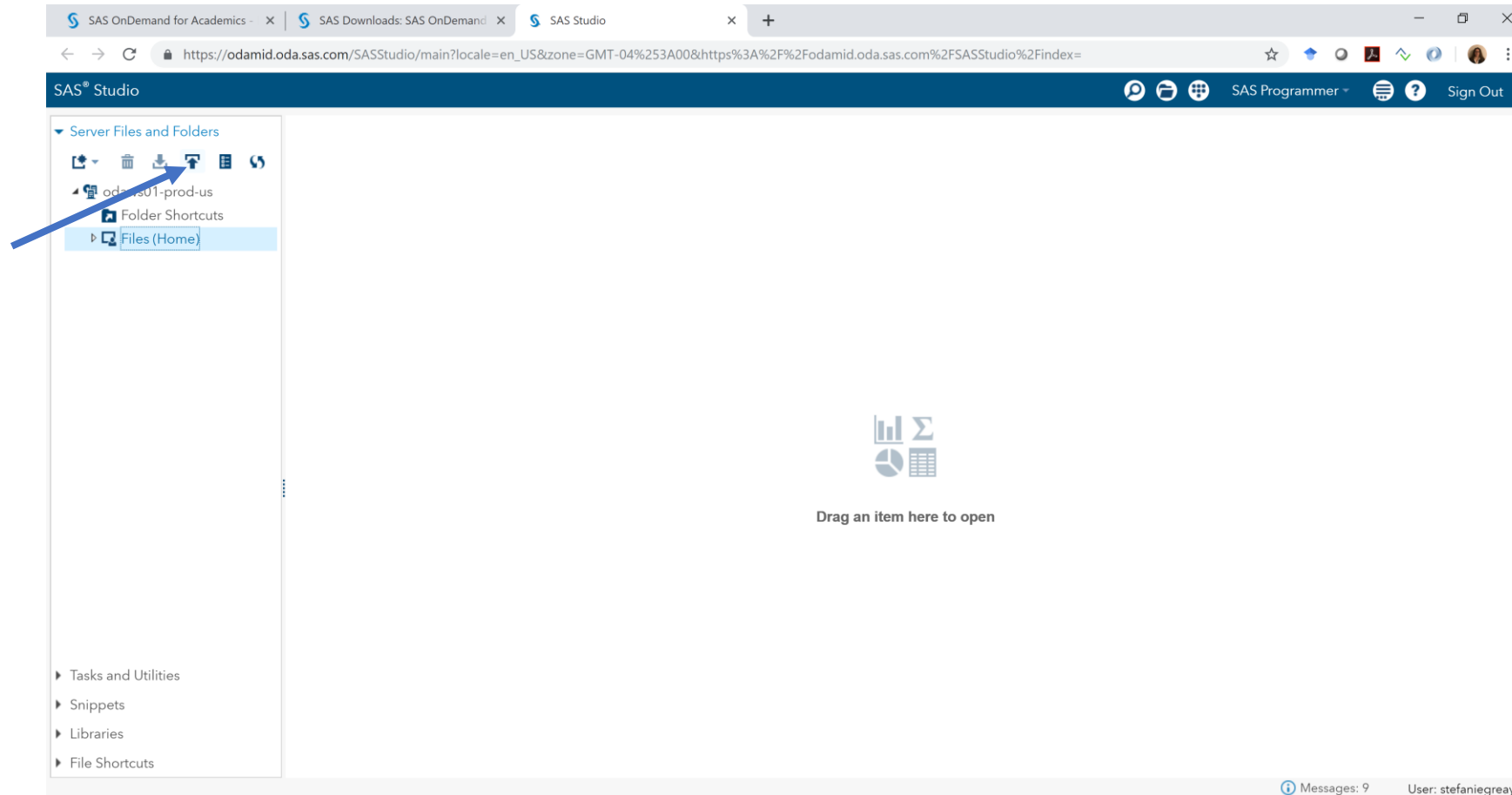
<https://odamid.oda.sas.com/SASStudio/>



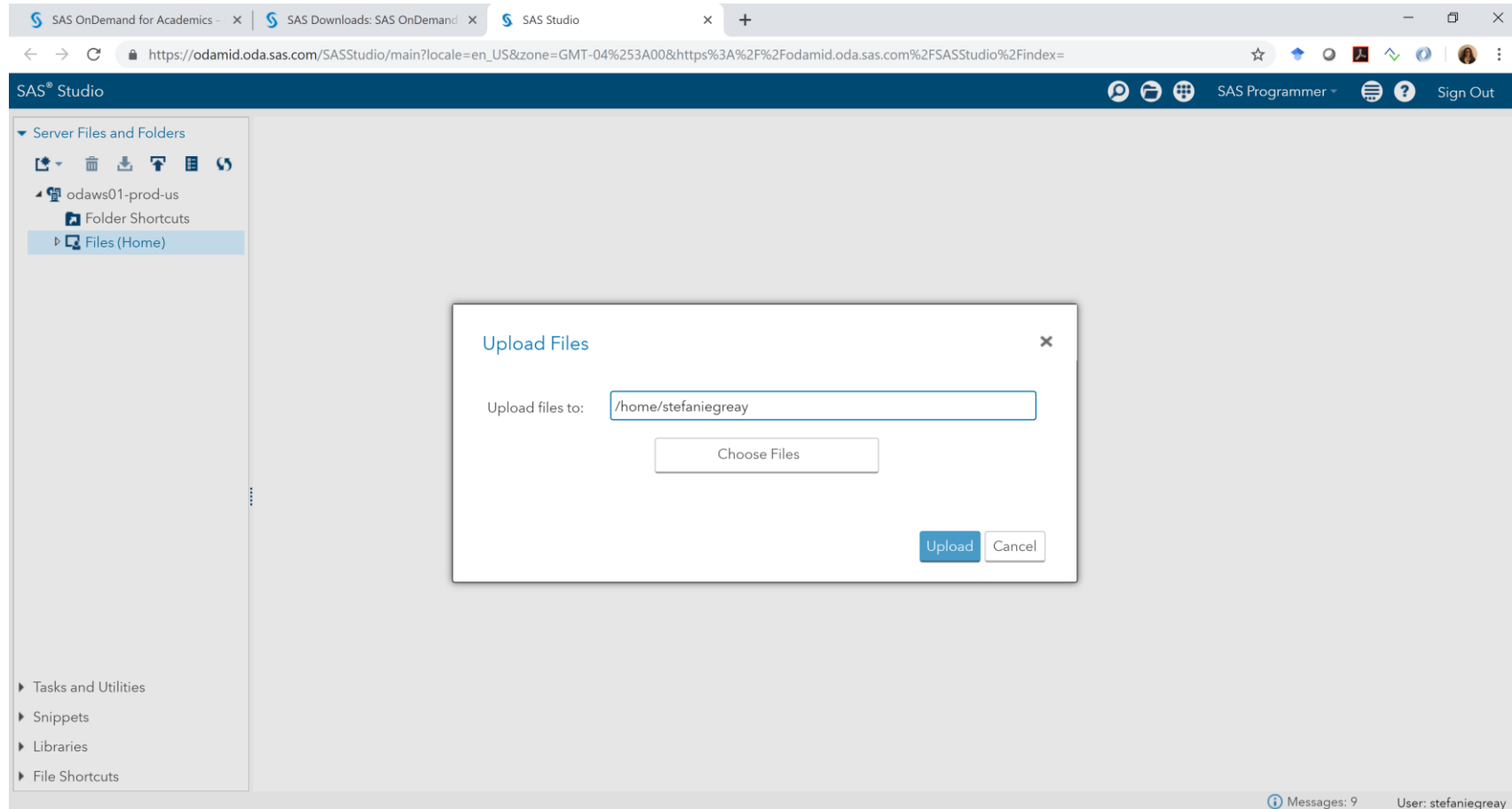
Click on Files(Home)



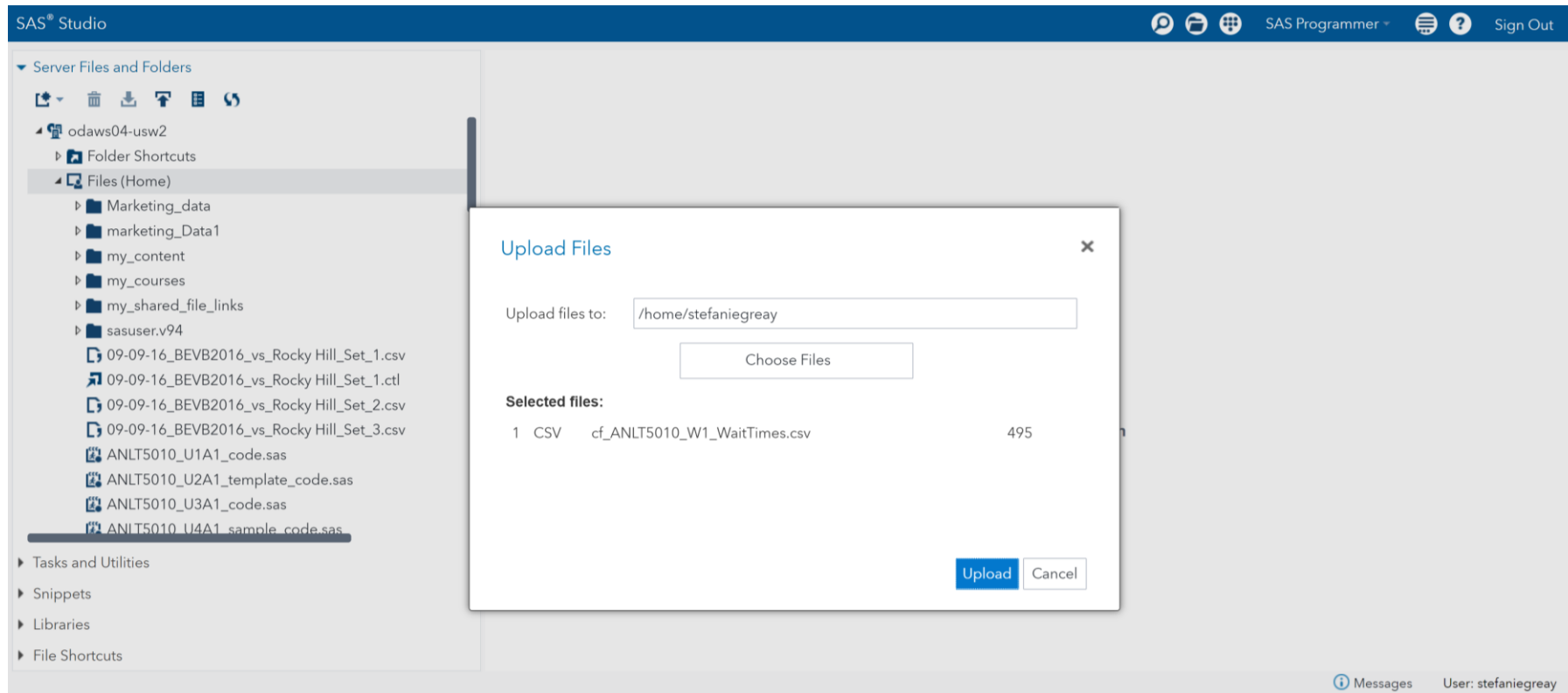
The Upload button will display in dark blue



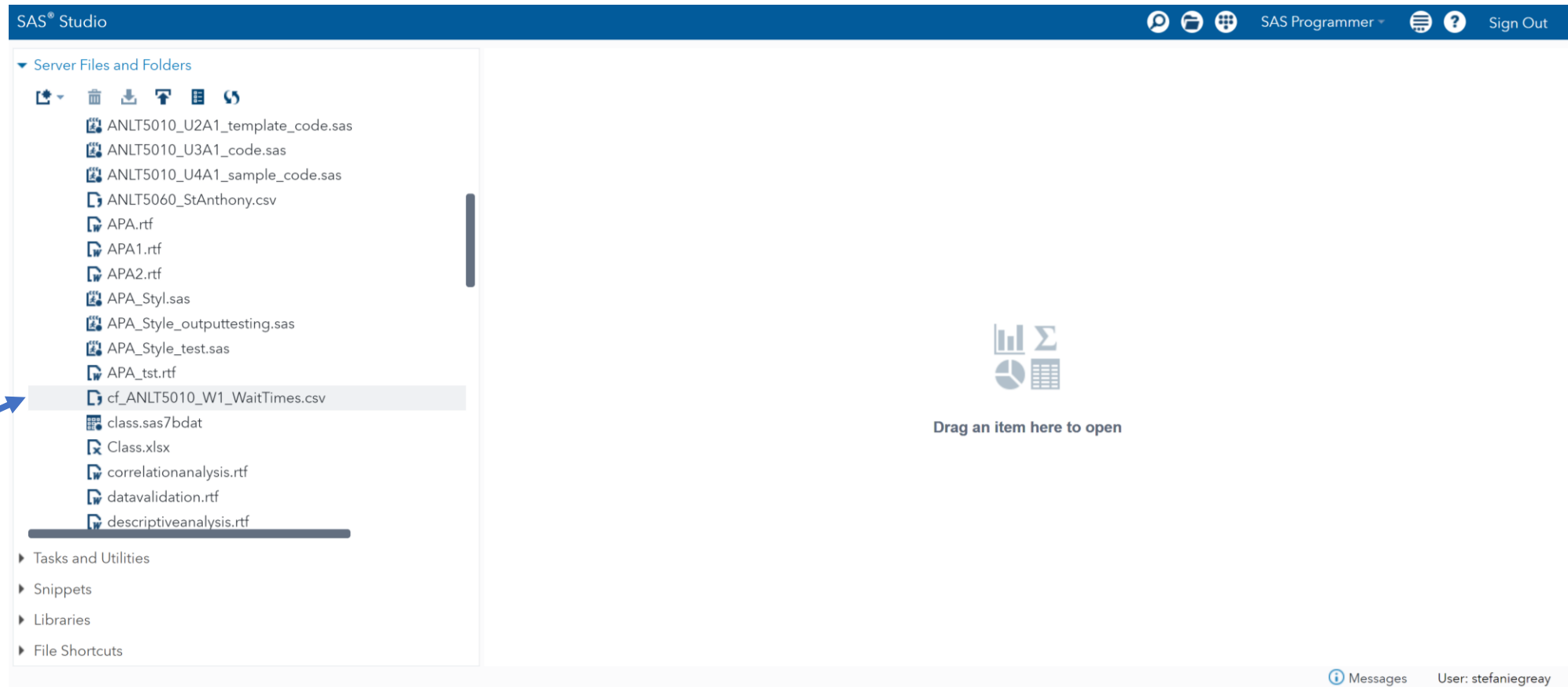
You can create a folder at this point, if you wish, or simply upload to your home directory.



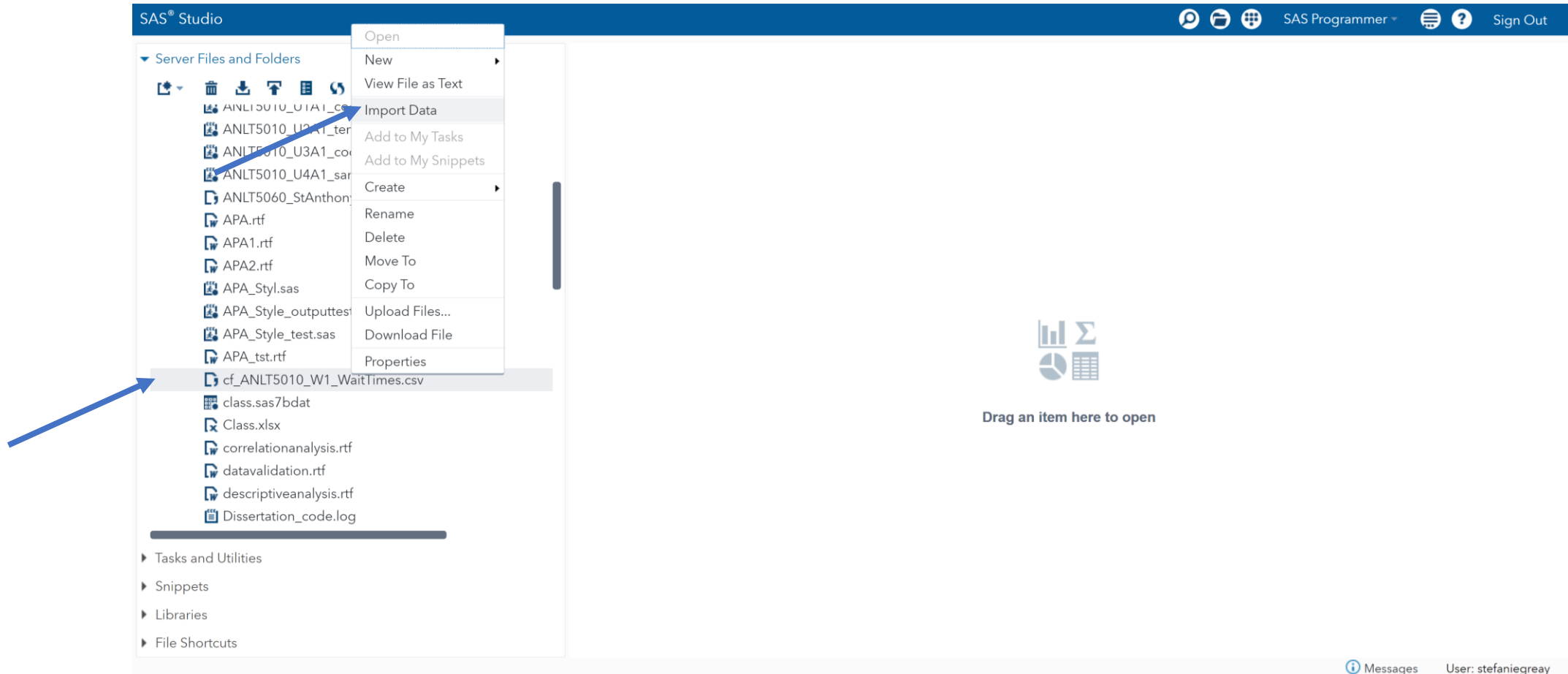
Select “Choose Files” to browse your computer for the dataset you want to upload. Once the dataset has been selected, click “Upload.”



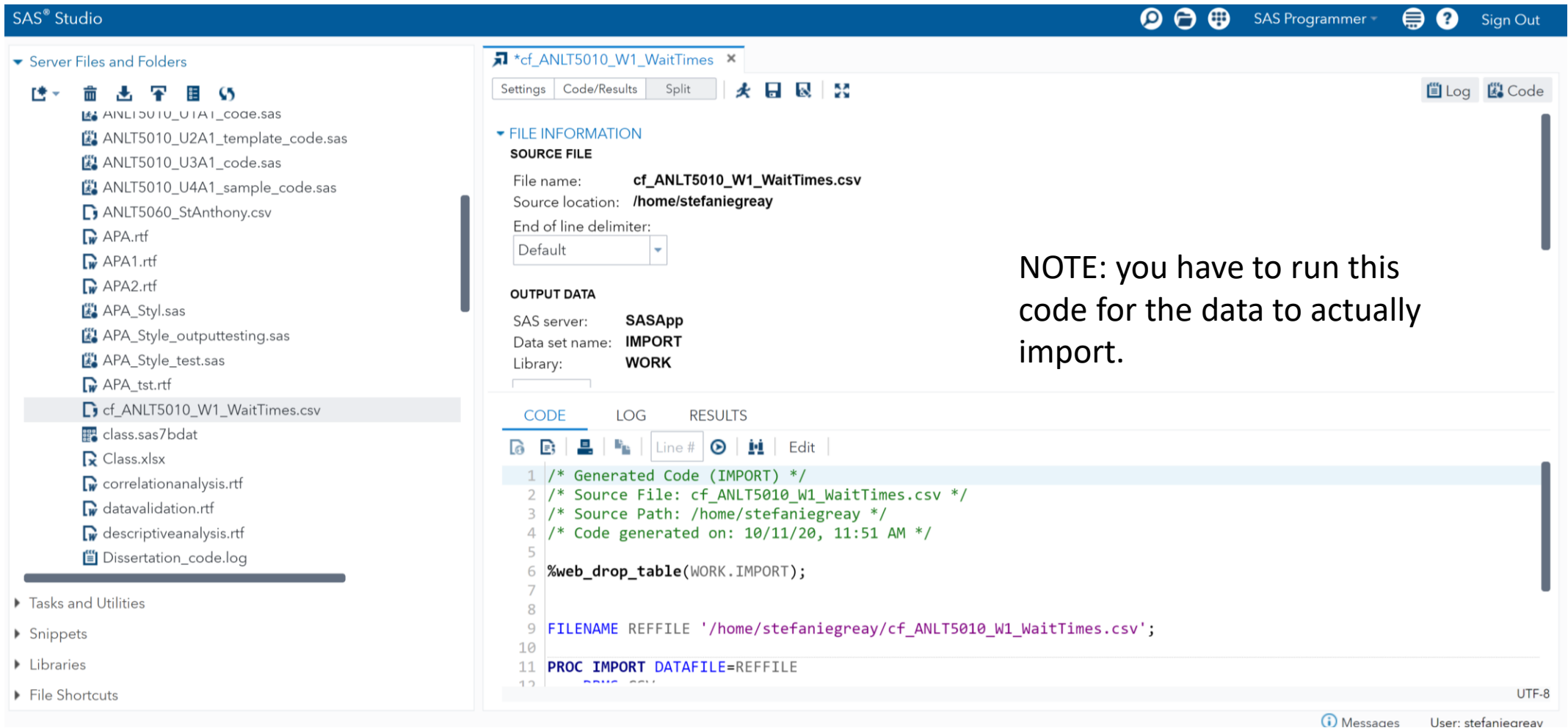
You will be able to view your files by clicking on “Files(Home)” to verify that your file successfully uploaded.



To import the dataset into a SAS dataset format (from the current csv format), right click on the name of the file, and select “Import Data.”



The Proc Import code will be written for you (save this as a template to use for future imports!)



The screenshot displays the SAS Studio interface. On the left, the 'Server Files and Folders' pane lists various files, with 'cf_ANLT5010_W1_WaitTimes.csv' selected. The main editor window shows the 'FILE INFORMATION' tab for this file, indicating the source location is '/home/stefaniegreay'. Below this, the 'OUTPUT DATA' section shows the SAS server as 'SASApp', the data set name as 'IMPORT', and the library as 'WORK'. The 'CODE' tab is active, displaying the following generated SAS code:

```
1 /* Generated Code (IMPORT) */
2 /* Source File: cf_ANLT5010_W1_WaitTimes.csv */
3 /* Source Path: /home/stefaniegreay */
4 /* Code generated on: 10/11/20, 11:51 AM */
5
6 %web_drop_table(WORK.IMPORT);
7
8
9 FILENAME REFFILE '/home/stefaniegreay/cf_ANLT5010_W1_WaitTimes.csv';
10
11 PROC IMPORT DATAFILE=REFFILE
12
```

NOTE: you have to run this code for the data to actually import.

At the bottom right of the interface, the status bar shows 'Messages' and 'User: stefaniegreay'.



In the Import option, uncheck the “Generate SAS Variable Names” option.

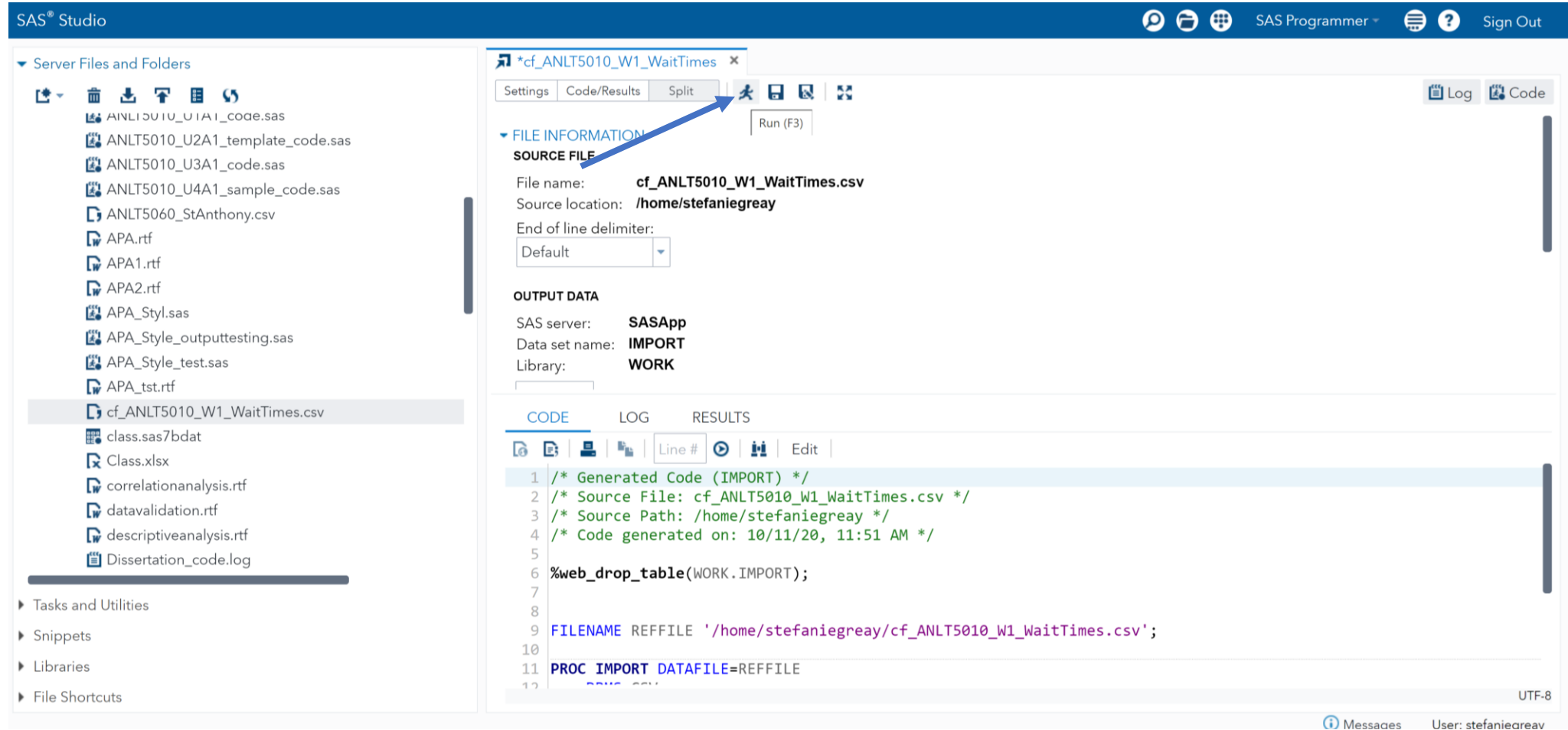
The screenshot shows the SAS Studio interface. On the left, the 'Server Files and Folders' pane shows a file tree with 'Files (Home)' selected. A blue arrow points from the 'Generate SAS variable names' checkbox in the 'OPTIONS' section of the 'Import' dialog box to the checkbox. The dialog box is titled '*cf_ANLT5010_W1_WaitTimes' and has tabs for 'Settings', 'Code/Results', and 'Split'. The 'OPTIONS' section includes 'File type' (DEFAULT), 'Generate SAS variable names' (unchecked), 'Start reading data at row' (Default), and 'Guessing rows' (Default). The bottom pane shows the 'RESULTS' tab with a 'Table of Contents' section. Below this, a table titled 'The CONTENTS Procedure' displays metadata for the imported data set.

The CONTENTS Procedure			
Data Set Name	WORK.IMPORT	Observations	100
Member Type	DATA	Variables	1
Engine	V9	Indexes	0
Created	10/11/2020 12:05:56	Observation Length	8
Last Modified	10/11/2020 12:05:56	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SAS DATA SET		

NOTE: you have to run this code for the data to actually import.



To run the code, click the icon that looks like a guy running.



When you run the code, you will see the dataset and summary in the output data window and can verify its success.

The screenshot shows the SAS Studio interface. On the left is the 'Server Files and Folders' pane with a tree view. The main area is split into two panes. The top pane shows the 'OPTIONS' settings for a file named '*cf_ANLT5010_W1_WaitTimes'. The bottom pane shows the 'RESULTS' tab with a table of dataset statistics.

Server Files and Folders

- odaws04-usw2
 - Folder Shortcuts
 - Files (Home)
 - Marketing_data
 - marketing_Data1
 - my_content
 - my_courses
 - my_shared_file_links
 - sasuser.v94
 - 09-09-16_BEVB2016_vs_Rocky Hill_Set_1.csv
 - 09-09-16_BEVB2016_vs_Rocky Hill_Set_1.ctf
 - 09-09-16_BEVB2016_vs_Rocky Hill_Set_2.csv
 - 09-09-16_BEVB2016_vs_Rocky Hill_Set_3.csv
 - ANLT5010_U1A1_code.sas
 - ANLT5010_U2A1_template_code.sas
 - ANLT5010_U3A1_code.sas
 - ANLT5010_U4A1_sample_code.sas
 - ANLT5060_StAnthony.csv
 - APA.rtf
- Tasks and Utilities
- Snippets
- Libraries
- File Shortcuts

OPTIONS

File type: DEFAULT (Based on file extension)

☐ Generate SAS variable names

Start reading data at row: Default

Guessing rows: Default

RESULTS

Table of Contents

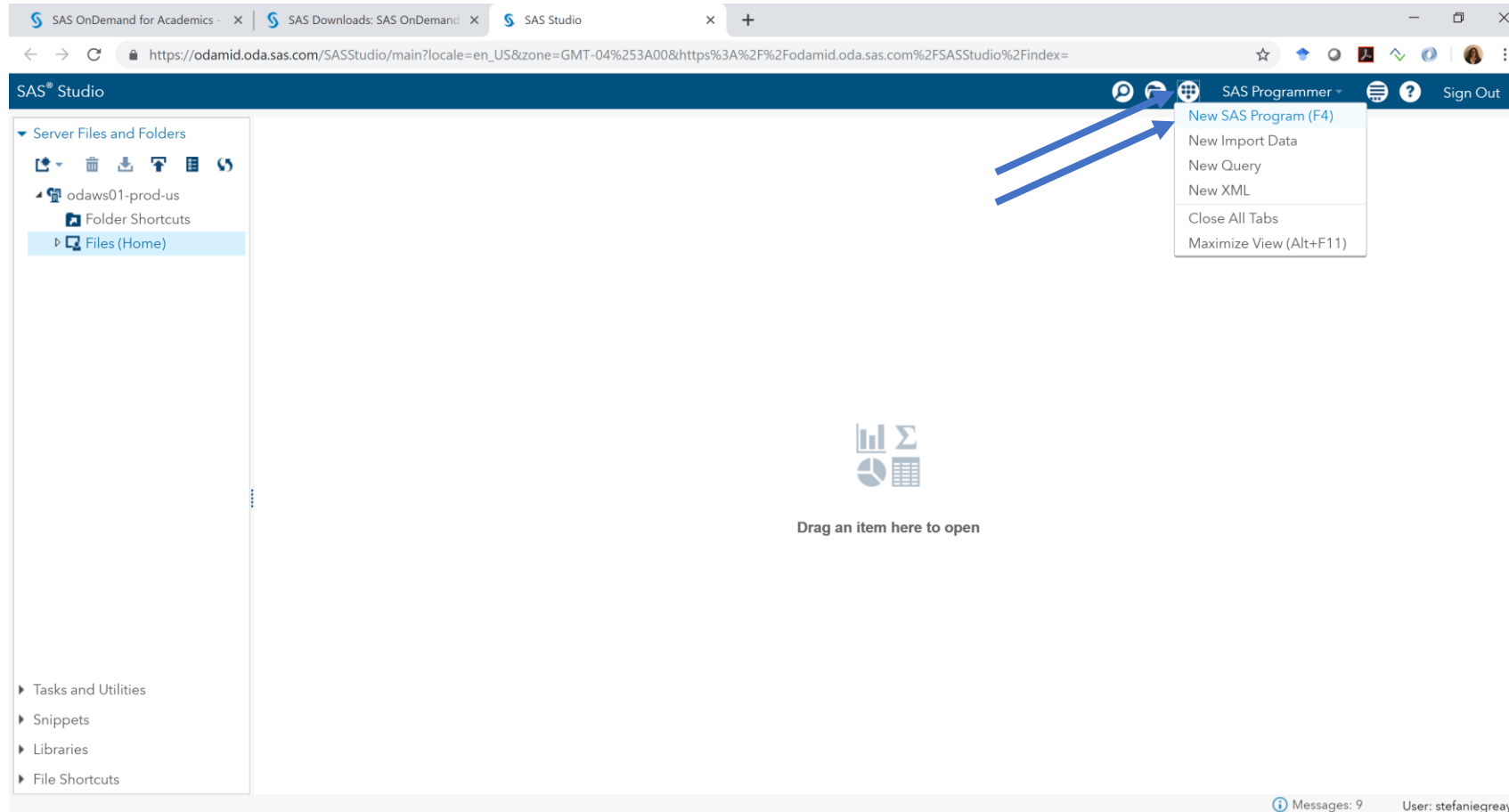
The CONTENTS Procedure

Data Set Name	WORK.IMPORT	Observations	100
Member Type	DATA	Variables	1
Engine	V9	Indexes	0
Created	10/11/2020 12:05:56	Observation Length	8
Last Modified	10/11/2020 12:05:56	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	S01 A015 Y00 R4 I1N11Y Y00 R4 A1 D04 T01R4 I1N11Y I004		

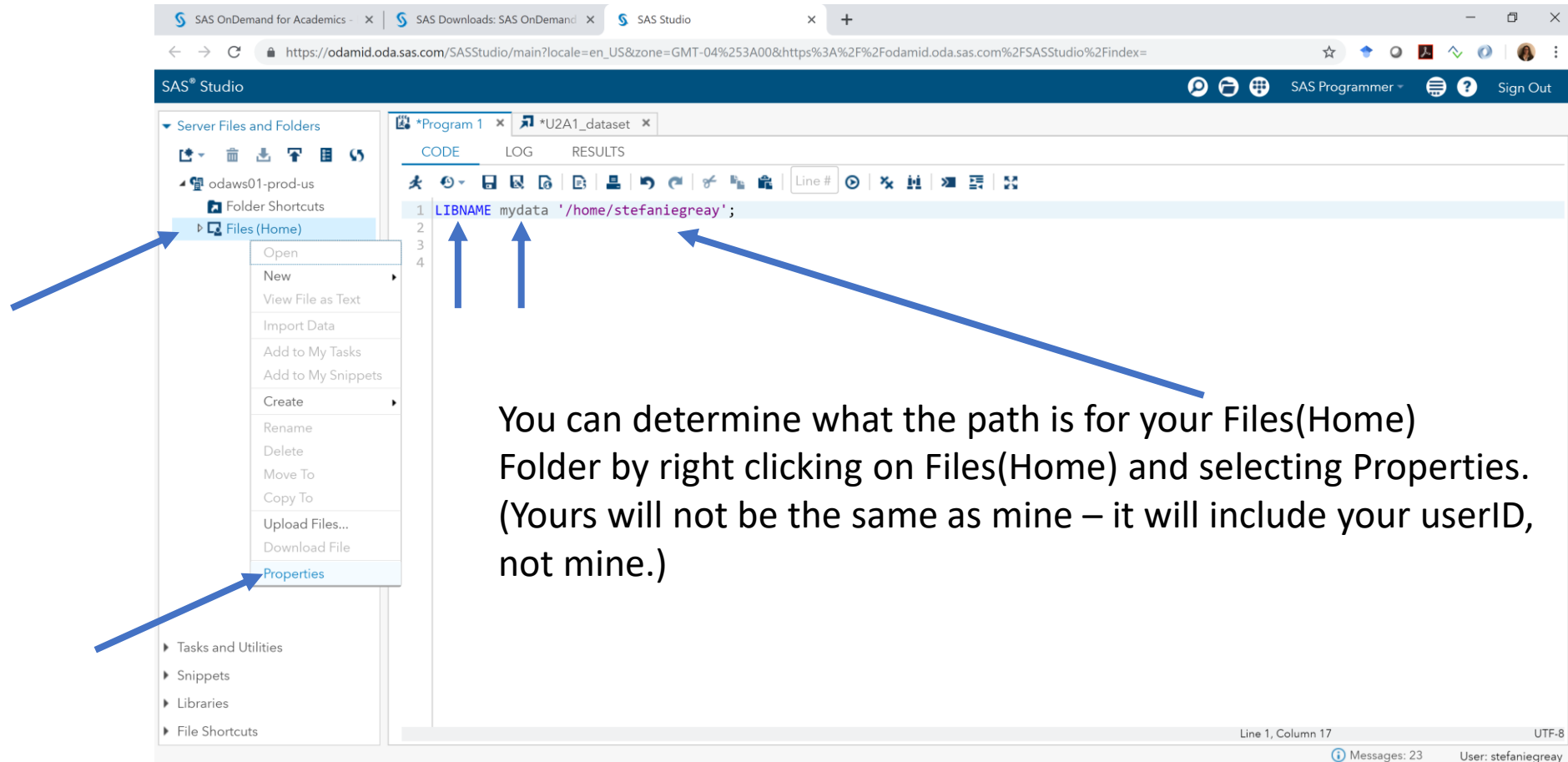
Messages: 6 User: stefaniegreay



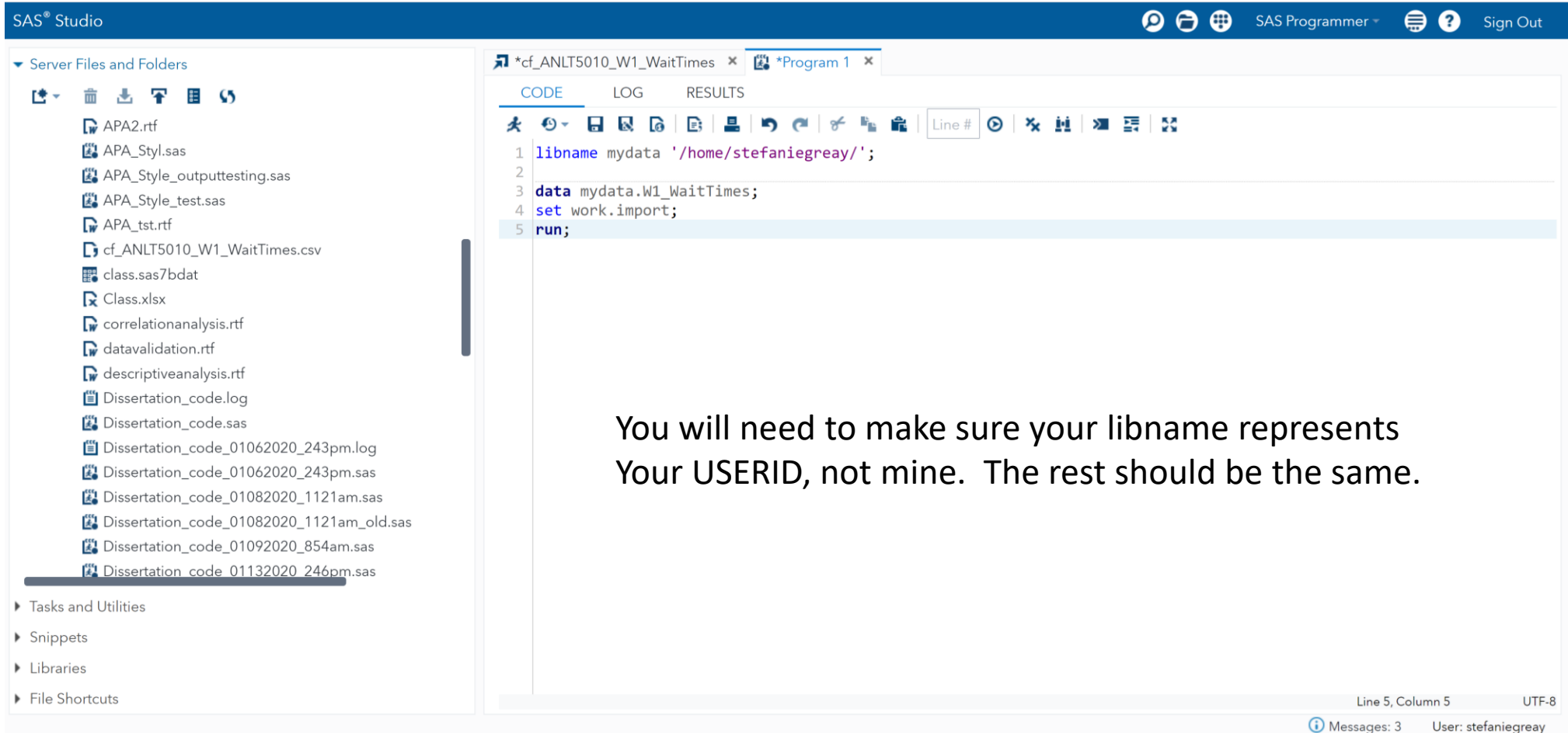
To get started with the SAS portion of the Unit 1 Assignment 1 assignment, start a new SAS program.



To create a SAS Library for your Files(Home) folder, you need to use a libname statement



Save the temporary SAS dataset created by the import to your library using the following sample code.



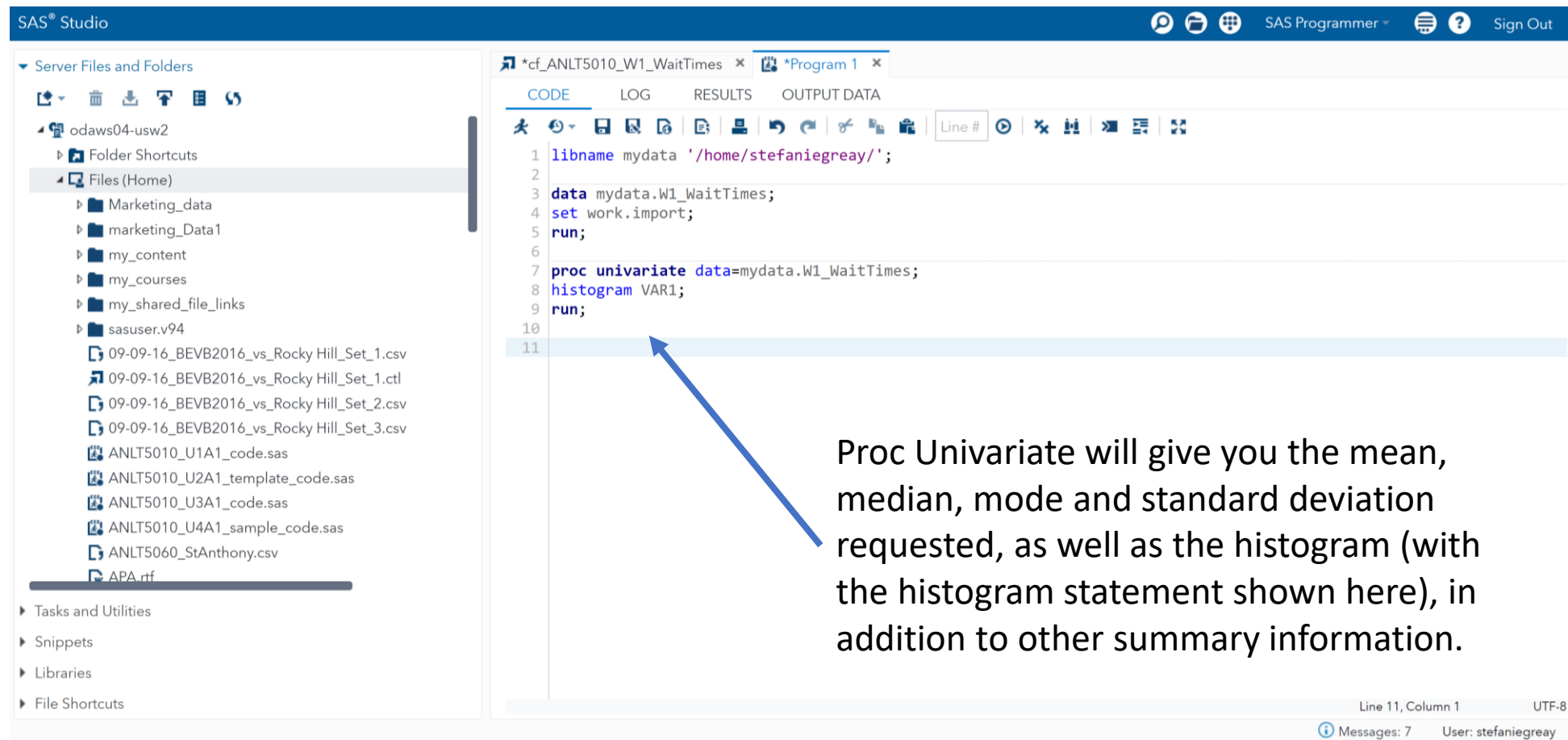
The screenshot shows the SAS Studio interface. On the left is the 'Server Files and Folders' pane with a list of files including APA2.rtf, APA_Styl.sas, and various Dissertation_code files. The main area is the 'CODE' editor, which contains the following SAS code:

```
1 libname mydata '/home/stefaniegreay/';  
2  
3 data mydata.W1_WaitTimes;  
4 set work.import;  
5 run;
```

Below the code editor, there is a text overlay that reads: "You will need to make sure your libname represents Your USERID, not mine. The rest should be the same." The bottom status bar shows "Line 5, Column 5" and "UTF-8".



You can now run any procedures against that dataset via the code window.



The screenshot displays the SAS Studio interface. On the left, the 'Server Files and Folders' pane shows a tree structure with 'Files (Home)' expanded, listing various datasets and code files. The main window is divided into tabs: 'CODE', 'LOG', 'RESULTS', and 'OUTPUT DATA'. The 'CODE' tab is active, showing the following SAS code:

```
1 libname mydata '/home/stefaniegreay/';  
2  
3 data mydata.W1_WaitTimes;  
4 set work.import;  
5 run;  
6  
7 proc univariate data=mydata.W1_WaitTimes;  
8 histogram VAR1;  
9 run;  
10  
11
```

A blue arrow points from the text box on the right to line 11 of the code, indicating the execution point. The status bar at the bottom right shows 'Line 11, Column 1' and 'UTF-8'.

Proc Univariate will give you the mean, median, mode and standard deviation requested, as well as the histogram (with the histogram statement shown here), in addition to other summary information.



Code template

```
libname mydata '/home/stefaniegreay/';
```

```
data mydata.W1_WaitTimes;
```

```
set work.import;
```

```
run;
```

```
proc univariate data=mydata.W1_WaitTimes;
```

```
histogram VAR1;
```

```
run;
```

