

How to install SAS OnDemand Academics (Free version)

Invite you to enroll in my SAS OnDemand for Academics course: Biostatistics

Follow the steps from slide # 5 - after this

1. Please create a SAS Profile that will be used to register for SAS OnDemand for Academics. To register, visit https://www.sas.com/ja_jp/software/on-demand-for-academics.html and fill out the form to Create profile. (valid email and activation required)
2. Create your account for SAS OnDemand for Academics. To register, visit <https://welcome.oda.sas.com> sign in with your SAS Profile and complete the steps to Register for an account.
3. After you have successfully created your account, follow these steps:
 - Sign on the the Dashboard at <https://welcome.oda.sas.com>.
 - Look for and select the Enrollments tab and select the "+ enroll in a course" link to start the enrollment.
 - Enter the course code: **78579bc7-2503-4cc4-bd66-cc7725df3e75**

Submit the form. Confirm that this is the correct course and then click the button to finish enrolling.

Cont.

4. I have also uploaded data for us to use in our course.

You will be able to access that data using a LIBNAME or FILENAME statement with this path:

Course Data path : [~/my_shared_file_links/u59072097](#).

A folder has been created for each exercise session

Try the examples in the Introduction if [possible \(you will start here the first lecture, so there is no need to force them to be implemented\)](#)

For more information about SAS OnDemand for Academics, including step-by-step registration instructions, visit the following site: <http://support.sas.com/ondemand>.

Instruction

STEP 1.～4

To use SAS on your own PC

- SAS OnDemand Academics (Free version)
 - https://www.sas.com/ja_jp/software/on-demand-for-academics.html
 - Registration required
 - Analysis is performed in a WEB access and cloud environment

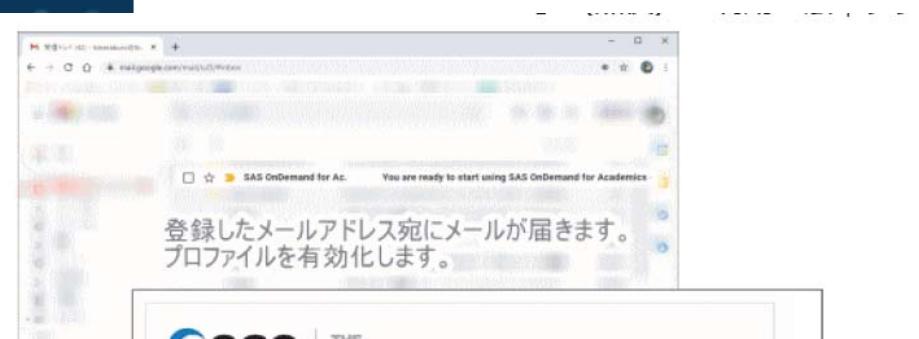


https://www.sas.com/ja_jp/software/on-demand-for-academics.html





Registration Confirmation email to your email address
→ Login and Activate



Register for SAS OnDemand

1. Apply for SAS OnDemand registration after registering your profile.
2. Click Access Now

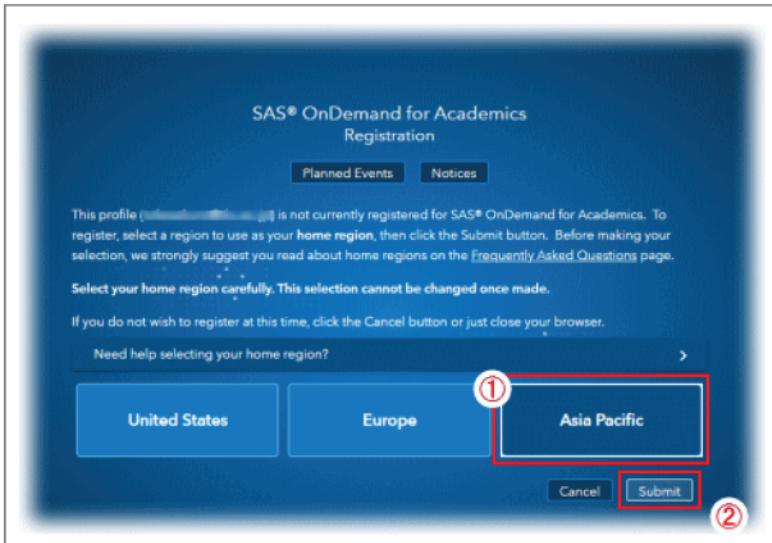


Sign in to SAS OnDemand

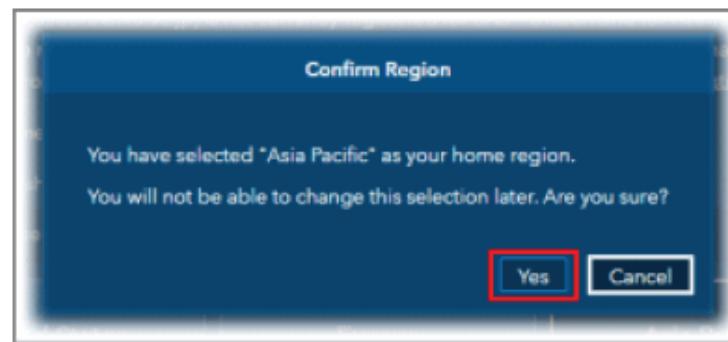


Sign in with your registered email address and password

Select "Asia Pacific" and click "Submit"



A confirmation message will appear. Click "YES".



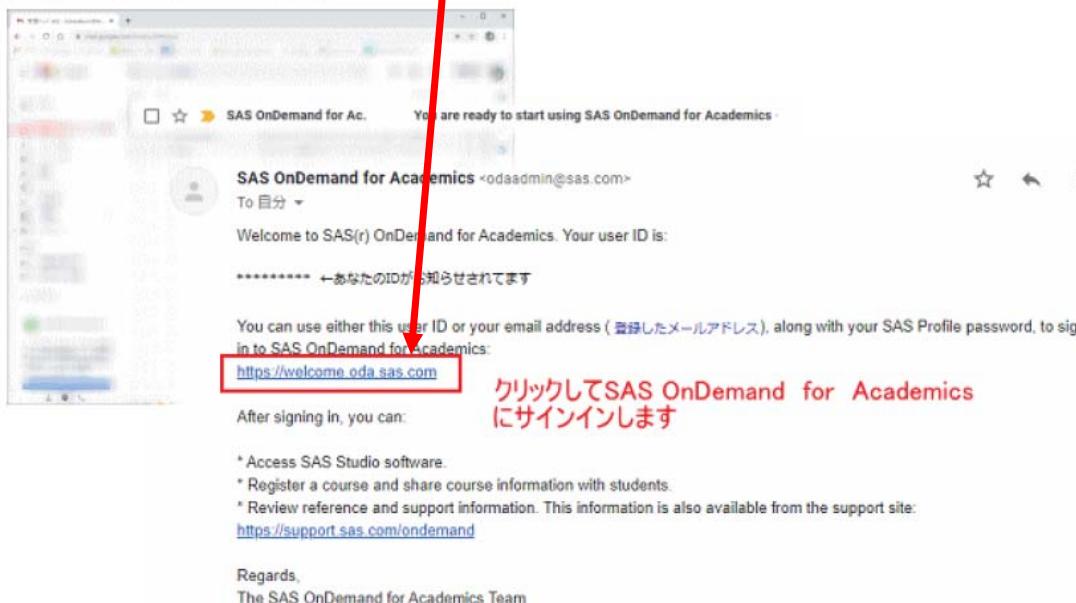
The application process is finished. す。

Using SAS Studio

You will receive an email from SAS.

Click <https://welcome.oda.sas.com>

SASから登録完了後にメールがきます
(ある程度の時間がかかります)



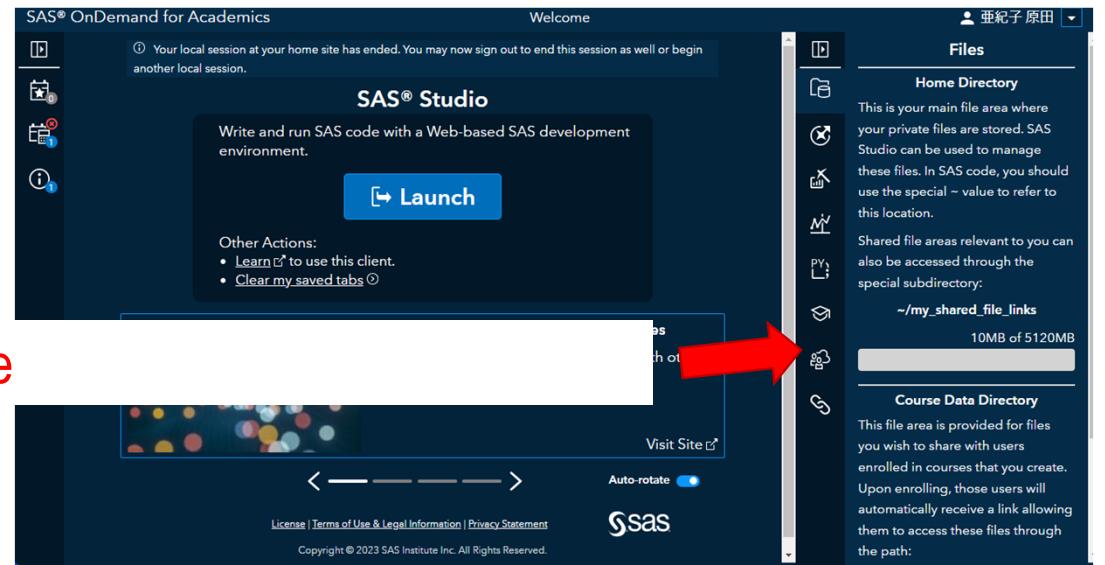
サインインします。



The screenshot shows the SAS OnDemand for Academics sign-in interface. It features a blue header with the text "SAS® OnDemand for Academics" and "Sign In". Below the header are two input fields: "SAS Profile email address or user ID" and "Password". A checkbox labeled "Accept the terms of the license and the terms of use and conditions." is checked, with a red circle highlighting the checked box. A red box highlights the "Sign In" button at the bottom.

Sign in with your registered email address and password

Click on here



The screenshot shows the SAS Studio interface. At the top, it says "SAS® OnDemand for Academics" and "Welcome". A message indicates that a local session has ended. The main area is titled "SAS® Studio" with the sub-instruction "Write and run SAS code with a Web-based SAS development environment." A large blue "Launch" button is centered. To the left, there's a sidebar with icons for Home, Shared, and Course Data Directories. A red arrow points from the "Click on here" text above to the "Course Data Directory" section. The right side of the screen displays the "Home Directory" and "Course Data Directory" sections, each with their respective descriptions and file counts.

NCD Biostatistics course

The screenshot shows the SAS OnDemand for Academics interface. On the left, there's a vertical sidebar with icons for Home, Session, Help, and Notifications (1 notification). The main area has a dark blue header with "SAS® OnDemand for Academics", "Asia Pacific 1", and a user profile for "亜紀子 原田". A message box says: "Your local session at your home site has ended. You may now sign out to end this session as well or begin another local session." Below this is the "SAS® Studio" section, which includes a "Launch" button and a "SAS Skill Builder" card. The "SAS Skill Builder" card features a profile picture, the text "Increase your skill set with SAS Skill Builder for Students (academic email required)", and a "Learn More" link. To the right of the studio is a sidebar with various icons: a square, a folder, a circular arrow, a magnifying glass, a bar chart, a graduation cap, a cloud, and a gear. A red box labeled "1" points to the graduation cap icon. At the top right, there's an "Enrollments" section with a "+ Add Enrollment" button, which is also highlighted with a red box and labeled "Click '+'". A red box labeled "2" points to the "Enrollments" section. The bottom of the page includes links for License, Terms of Use & Legal Information, and Privacy Statement, along with a copyright notice: "Copyright © 2023 SAS Institute Inc. All Rights Reserved.".

SAS® OnDemand for Academics

Asia Pacific 1

亜紀子 原田

Enrollments

You have no enrollments at this time.

Click "+" . ②

①

SAS® Studio

Write and run SAS code with a Web-based SAS development environment.

[Launch]

Other Actions:

- Learn ↗ to use this client.
- Clear my saved tabs ⓘ

SAS Skill Builder

Increase your skill set with SAS Skill Builder for Students (academic email required)

Learn More ↗

Auto-rotate

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ⓘ Your local session at your home site has ended. You may now sign out to end this session as well or begin another local session.

Enrollments

SAS® Studio

Write and run SAS code with a Web-based SAS development environment.

Launch

Enroll in a Course

Other Actions:

- [Learn](#) ↗ to use thi
- [Clear my saved ta](#)



Course Code:

Continue

Cancel

Students (academic email required).

Learn More ↗

< — — — — >

Auto-rotate



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Look for and select the Enrollments tab and select the "+ enroll in a course" link to start the enrollment.

Enter the course code: [78579bc7-2503-4cc4-bd66-cc7725df3e75](#)

Submit the form. Confirm that this is the correct course and then click the button to finish enrolling.

SAS® OnDemand for Academics

亚洲太平洋 1

亚纪子 原田

Courses

京都府立大学_保健統計学実習
Kyoto Prefecture University
More...
2023-02-10

基础医学入門
Shiga Medical University of science
More...
2022-08-25

Biostatistics
Shiga Medical University of science
More...
2021-11-11

Your local session at your home site has ended. You may now sign out to end this session as well or begin another local session.

SAS® Studio

Write and run SAS code with a Web-based SAS development environment.

Launch

Other Actions:

- Learn to use this client.
- Clear my saved tabs

Access next time from here

SAS Skill Builder

Increase your skill set with SAS Skill Builder for Students (academic email required).

Learn More

Auto-rotate

< ----- >

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sas

SAS Studio is ready to use.

The screenshot shows the SAS Studio interface. On the left, there is a sidebar with a file tree. A red box highlights the 'ファイル(ホーム)' section, which contains a folder named 'u59072097' with several sub-folders: '#01_introduction', '#02_group comparison', '#03_GeneralLinearModel', '#04_GLM_Logistic_Poisson', '#05_Survival Analysis', '#06_FA PCA CA LCA', and '#07_ANOVA'. A yellow callout box with a red arrow points to the '#01_introduction' folder, containing the text: 'A folder has been created for each exercise session'. On the right, the main workspace shows a 'Program 1' tab with two open files: '#01_supple.sas' and '#1_introduction.sas'. Below the tabs is a toolbar with icons for search, refresh, and help. The main area is divided into 'コード' (Code), 'ログ' (Log), and '結果' (Results) tabs, with the 'コード' tab selected. A red box highlights the 'Code' tab. A large red box surrounds the entire right workspace area. Inside this red box, the text 'Write your SAS code here' is displayed in red.

View of SAS studio

- ① code, ②log, ③result, ④dataset

Select each Tabs

The screenshot shows the SAS Studio interface. On the left is a sidebar with a tree view of server files and folders. The main area has four tabs at the top: 'コード' (Code), 'ログ' (Log), '結果' (Results), and '出力データ' (Output Data). A red arrow points from the text 'Select each Tabs' to the 'Code' tab, which is highlighted with a red box. Below the tabs is a code editor window displaying SAS code. The code reads data from a library and performs statistical analysis. A red box highlights the word 'libname' in line 1. To the right of the code editor, the text '[Code]VIEW' is written in red.

```
1 libname libref V9 '/home/u59072097/sasuser.v94';
2
3 /*JMP演習用*要約統計量 1_7*/
4 /*そのまま読み込み用*/
5 DATA DM;
6 INPUT BS HbA1c;
7 Lines;
8 106 5.4
9 84 4.6
10 117 6.1
11 84 5.2
12 94 5.7
13 76 4.4
14 90 4.8
15 97 4.8
16 88 4.9
17 66 4.5
18 69 4.2
19 61 4.6
20 104 5.2
21 87 5.3
22 96 5.9
23 98 5.4
24 119 7.1
25 127 6.9
26 93 5.3
27 109 5.4
28 ;
29 RUN;
30
31 /*Library作成後*/
32 data hara.DM2;
33 set dm;
34 PROC GLM DATA=hara.DM2 ALPHA=0.05;
```

Exercises with SAS OnDemand Academics

About the Code and dataset to be used

#01_supple.sas

SAS® Studio

サーバーファイルとフォルダ

odaws02-apse1

- フォルダショートカット
- harada

ファイル(ホーム)

- my_shared_file_links
 - u59072097
 - #01_introduction
 - #01_supple.sas
 - #1_introduction.sas
 - #1_intro_suppl.sas
 - bhq1.csv
 - corr.pdf
 - health.sas7bdat

タスクとユーティリティ

スニペット

プログラム 1 *#01_supple.sas *#1_introduction.sas #1_intro_suppl.sas

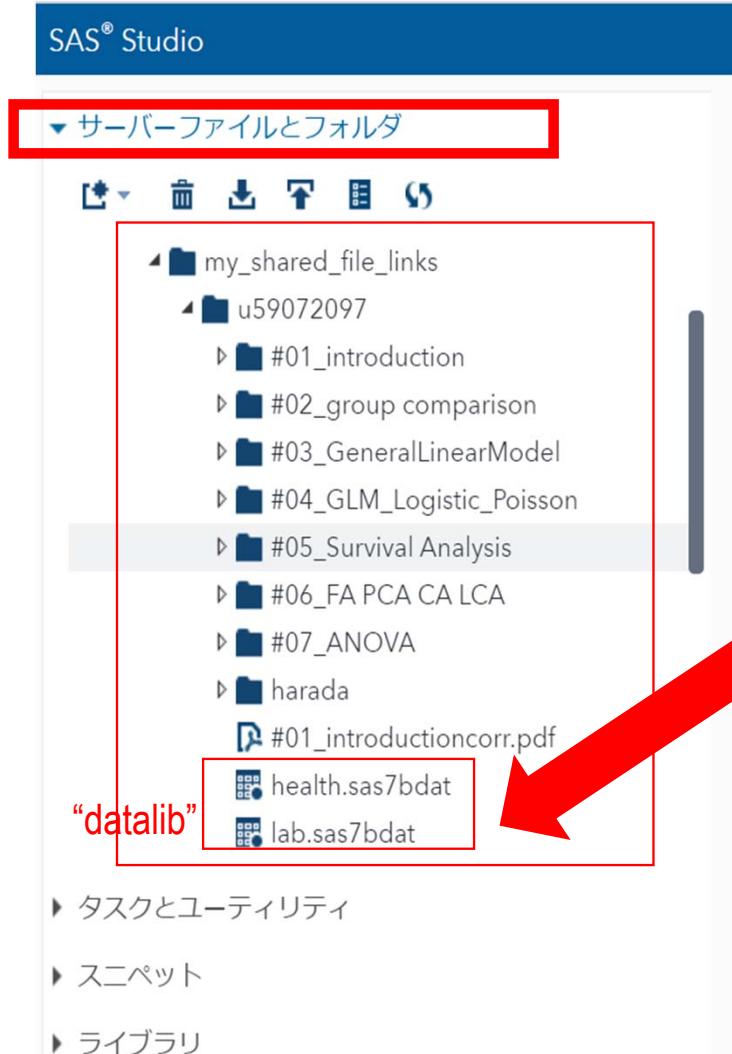
コード ログ 結果 出力データ

行番号

```
1 /*Supplemental For SAS Academic*/
2 /*In SAS Course "Biostatistics" a LIBNAME for the course was defined.
3 uses the Course Data Directory path */
4
5 /*1) Path: Save the file you will use in the course here. Read-only*/
6 LIBNAME datalib "~/my_shared_file_links/u59072097" access=readonly;
7
8 /*2) own lib path: Create and save your own library of files for your own use*/
9 /*The "My Library" path is as follows." Example of creating a file named "HARADA"*/
10 LIBNAME HARADA "~sasuser.v94";
11
12 /*T File open : an example of creating, saving, and analyzing a "lab" dataset
13 in the library using the "lab" dataset from the course library*/
14 LIBNAME datalib "~/my_shared_file_links/u59072097" access=readonly;
15
16 DATA HARADA LAB;
17
18
19
```

Drag #01_supple.sas file to the code screen

File open



- The dataset “lab” “health” for the using exercise is stored in the following hierarchy

/home/u59072097/my_shared_file_links/u59072097

The folder where the dataset is located is read-only (shared folder for the exercise), so set up a library (folder) to store the dataset and analysis results for your own use.
==Setup after this==

About the Code and dataset to be used #01_supple.sas

```
/*Supplemental For SAS Academic*/
/*In SAS Course "Biostatistics" a LIBNAME for the course was defined. This statement "~my_shared_file_links/u59072097" uses the
Course Data Directory path */
```

```
/*1) course lib path: Save the files you will use in the course here. Read-only*/
LIBNAME datalib "~my_shared_file_links/u59072097" access=readonly;
```

1

```
/*2) own lib path: Create and save your own library of files for your own use*/
/*The "My Library" path is as follows." Example of creating a file named "HARADA"*/LIBNAME HARADA "~sasuser.v94";
```

```
/*The following is an example of creating, saving, and analyzing a "lab" dataset in the "HARADA" library using the "lab" dataset from
the course library*/
```

2

```
LIBNAME datalib "~my_shared_file_links/u59072097" access=readonly;
data HARADA.lab2;
set datalib.lab;
run;
```

Code to create a "lab2" dataset for the
"HARADA" library using the "lab" dataset from
the "datalib" course library

3

```
proc print; run;
```

Output and check the dataset as well

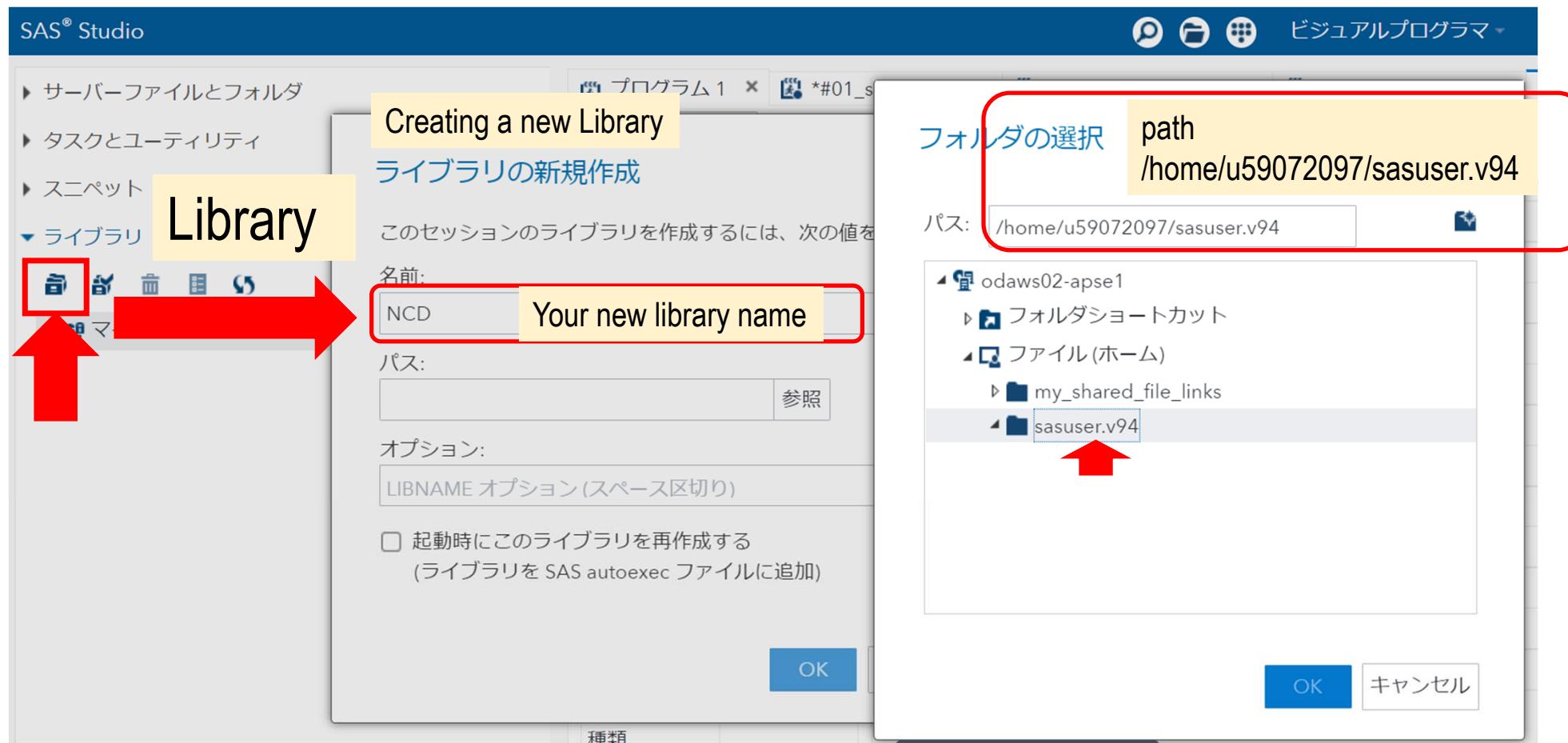
① Create your own library

The screenshot shows the SAS Studio interface. On the left, the 'サーバーファイルとフォルダ' (Server Files and Folders) sidebar is open, displaying a file tree under 'odaws02-apse1'. A red box highlights the 'Library' item in the sidebar. In the center, the code editor window displays two files: '#00_supple.sas' and '#1_introduction.sas'. The '#1_introduction.sas' tab is active. The code in the editor is:

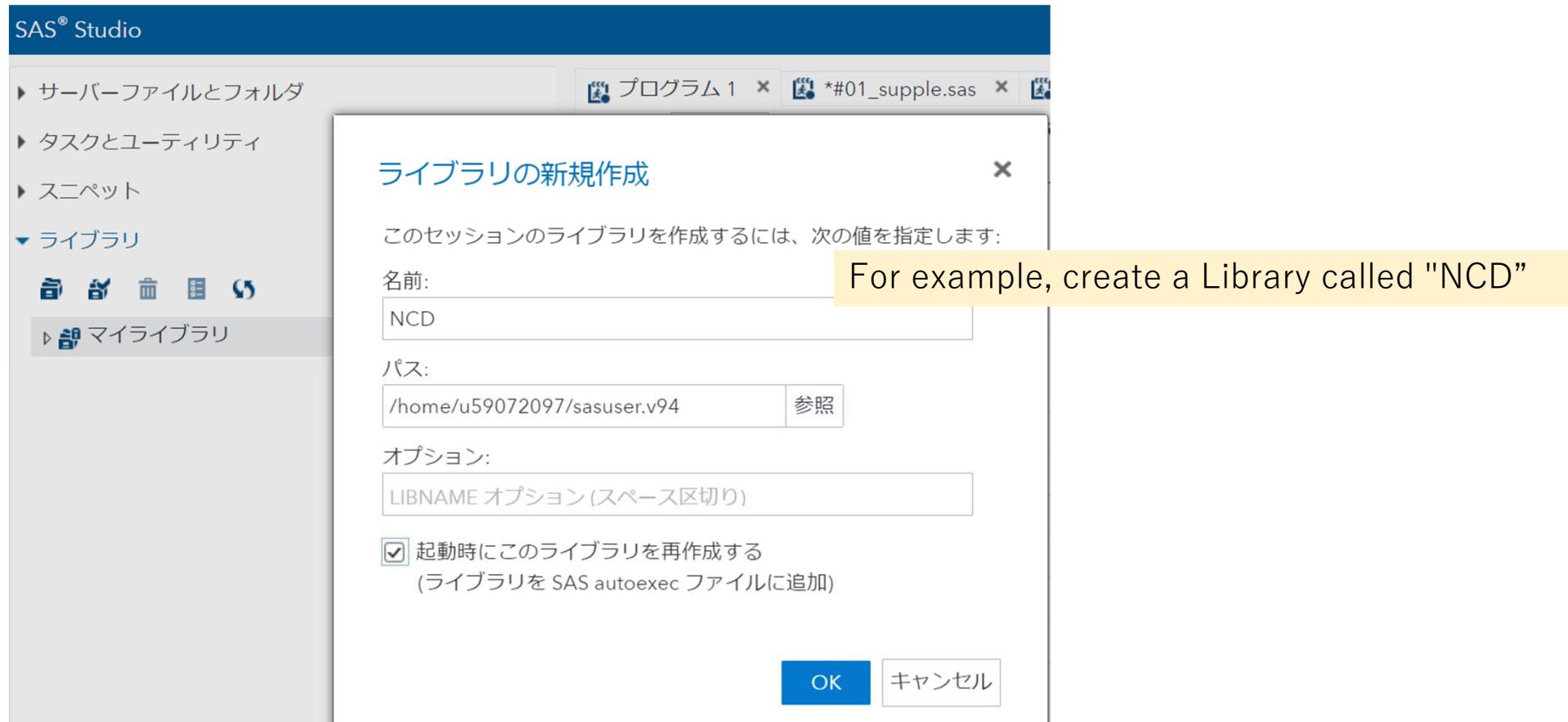
```
1 LIBNAME datalib "~/my_shared_file_links/u59072097" access=readonly;
2 LIBNAME harada "~/home/u59072097/sasuser.v94";
3 /*The "My Library" path is as follows." Example of creating a file named "HARADA"*/
4
5
6
7 ****
8 /*Reading Data 1) Direct input*/
9 ****
10
11 /*The "My Library" path is as follows." Example of creating a file named "HARADA"*/
12
13
14 data harada.test;
15 input id age sex $ arm effect drop;
16
```

The status bar at the bottom right indicates '行 645, 列 1' (Line 645, Column 1) and 'UTF'.

① Create your own library



① Create your own library



- ▶ サーバーファイルとフォルダ
- ▶ タスクとユーティリティ
- ▶ スニペット
- ▼ ライブラリ



INTRO01

MAPS

MAPSGFK

MAPSSAS

NCD

HEALTH_4

IMPORT

LAB

LAB2

TEST

SASDATA

SASHHELP

SASUSER

CTDCAMD

e.g. “NCD” library

In subsequent analyses, replace **“HARADA”** with your own library name (e.g. NCD) created here.

②Code to create a "lab2" dataset for the “Your (e.g.HARADA)” library using the "lab" dataset from the "datalib" course library

SAS® Studio

②Press the "run" button
or "F3 key"

①Select the corresponding code

The screenshot shows the SAS Studio interface. On the left is a sidebar with navigation links like 'サーバーファイルとフォルダ', 'タスクとユーティリティ', 'スニペット', and 'ライブラリ'. Under 'ライブラリ', there's a 'マイライブラリ' section with entries for 'DATALIB', 'HEALTH', 'LAB', 'HAR', 'HARA', 'HARADA', 'HEALTH_4', 'IMPORT', 'LAB', 'LAB2', and 'TEST'. The main area is a code editor titled 'プログラム 1'. A red arrow points to the 'run' button in the toolbar above the code area. Red boxes highlight the code for creating a 'libname' and the 'data' step. A red dashed box highlights the 'run' statement. Red text instructions provide guidance for running the code.

```
/*1) course lib path: Save the files you will use in the course here. Read-only*/
LIBNAME datalib "~/my_shared_file_links/u59072097" access=readonly;

/*2) own lib path: Create and save your own library of files for your own use*/
/*The "My Library" path is as follows." Example of creating a file named "HARADA"*/
LIBNAME HARADA "~/sasuser.v94";

/*The following is an example of creating, saving, and analyzing a "lab" dataset
in the "HARADA" library using the "lab" dataset from the course library*/
LIBNAME datalib "~/my_shared_file_links/u59072097" access=readonly;
data HARADA.lab2;
set datalib.lab;
run;
proc print;
run;
```

The image shows two screenshots of the SAS Studio interface. The left screenshot displays the 'Server Files and Folders' view, where a file named 'lab.sas7bdat' is selected. A red arrow points from this file to the right screenshot, which shows the 'Libraries' view. In the 'Libraries' view, a new dataset named 'lab2.sas7bdat' is visible under the 'HARADA' library. A yellow callout box contains the text: 'Confirm "lab2" dataset is created in "HARADA" library'.

SAS® Studio

▼ サーバーファイルとフォルダ

my_shared_file_links

u59072097

- #01_introduction
- #02_group comparison
- #03_GeneralLinearModel
- #04_GLM_Logistic_Poisson
- #05_Survival Analysis
- #06_FA PCA CA LCA
- #07_ANOVA
- harada
- #01_introductioncorr.pdf
- health.sas7bdat
- lab.sas7bdat

タスクとユーティリティ

スニペット

ライブラリ

SAS® Studio

▼ サーバーファイルとフォルダ

タスクとユーティリティ

スニペット

▼ ライブラリ

マイライブラリ

- DATALIB
 - HEALTH
 - LAB
- HAR
- HARA
- HARADA
 - HEALTH_4
 - IMPORT
 - LAB
 - LAB2
 - TEST
- HARADA3

Confirm "lab2" dataset is created in "HARADA" library

③Output and check the dataset “Proc print”

The screenshot shows the SAS software interface. On the left, a yellow box contains the SAS code:

```
proc print;
run;
```

A large blue arrow points from this code to the right side of the interface, where the output is displayed. The output is a table titled "データセット HARADA.LAB2". The table has 11 rows (Obs 1 to 11) and 13 columns (Obs, age, weight, height, h_bp, l_bp, tp, got, gpt, alp, ggpt, bun, VAR12). The data is as follows:

Obs	age	weight	height	h_bp	l_bp	tp	got	gpt	alp	ggpt	bun	VAR12
1	43	61	147.5	110	78	7.6	19	14	4.4	10	11	
2	82	56	144.3	158	70	7.6	27	20	5.9	7	15	
3	40	46.5	146	110	76	7.3	14	12	3	8	16	
4	71	57.5	146.1	186	118	8.5	22	14	7.5	22	15	
5	50	58	156.5	160	98	7.3	15	13	5.9	8	14	
6	53	53.5	144.8	150	90	7.6	25	20	6.9	12	13	
7	54	50	139.3	164	100	7.1	20	17	4.2	23	18	
8	76	40	136.5	130	70	7.7	24	16	4.7	12	19	
9	62	48	151.9	114	76	6.8	20	17	5.4	10	14	
10	62	49	154.6	142	88	8	24	17	5.5	16	13	
11	48	48.5	150.2	108	70	7.4	14	14	4.7	9	12	

▼ サーバーファイルとフォルダ



#5_survival.sas

health2.csv

health_4.sas7bdat

import.sas7bdat

kkkk.sas

lab.sas7bdat

lab2.sas7bdat

test.sa

demo2.sas

demo3.sas

F:log.pdf

F:log2.pdf

health2.sas7bdat

▶ タスクとユーティリティ

▶ スニペット

▶ ライブラリ

プログラム 1 *#01_supple.sas *#1_introduction.sas #1_intro_suppl.sas lab.sas7bdat

ビュ: 列名 フィルタ: (なし)

列 合計行数: 11 合計列数: 12 行 1-11

	age	weight	height
1	43	61	147.5
2	82	56	144.3
3	40	46.5	146
4	71	57.5	146.1
	58	53.5	156.5
	50	40	144.8
7	54	48	139.3
8	76	40	136.5
9	62	49	151.9
10	62	49	154.6
11	48	48.5	150.2

Data can also be displayed by clicking directly on the dataset

tp aot

プロパティ	値
ラベル	
名前	
長さ	
種類	

#1_introduction.sas

/*Reading Data 1) Direct input*/

/*The "My Library" path is as follows." Example of creating a file named "HARADA"*/

```
data harada.test;      List variable names after "input"  
input id age sex $ arm effect drop;  
cards;  
1 48 F 1 1 0  
2 52 M 2 1 0  
3 64 F 1 2 0  
4 60 M 1 1 2  
;  
run;
```



Obs	id	age	sex	arm	effect	drop
1	1	48	F	1	1	0
2	2	52	M	2	1	0
3	3	64	F	1	2	0
4	4	60	M	1	1	2

"1_introduction.sas" will be followed by the exercise content thereafter, but you will do the exercise on the first exercise day, explaining and doing the exercise.

If you have extra time, please prepare yourself.