Introduction to SPSS

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Introduction: What is SPSS?

- Originally it is an acronym of Statistical Package for the Social Science but now it stands for Statistical Product and Service Solutions

- One of the most popular statistical packages which can perform highly complex data manipulation and analysis with simple instructions

Why do you need to know about SPSS?

You will have a course in Biostatistics' on third grade .SPSS will help you in doneing statistical analyses (descriptive and inferential).

Graphical presentations of research results.

Components of SPSS Program

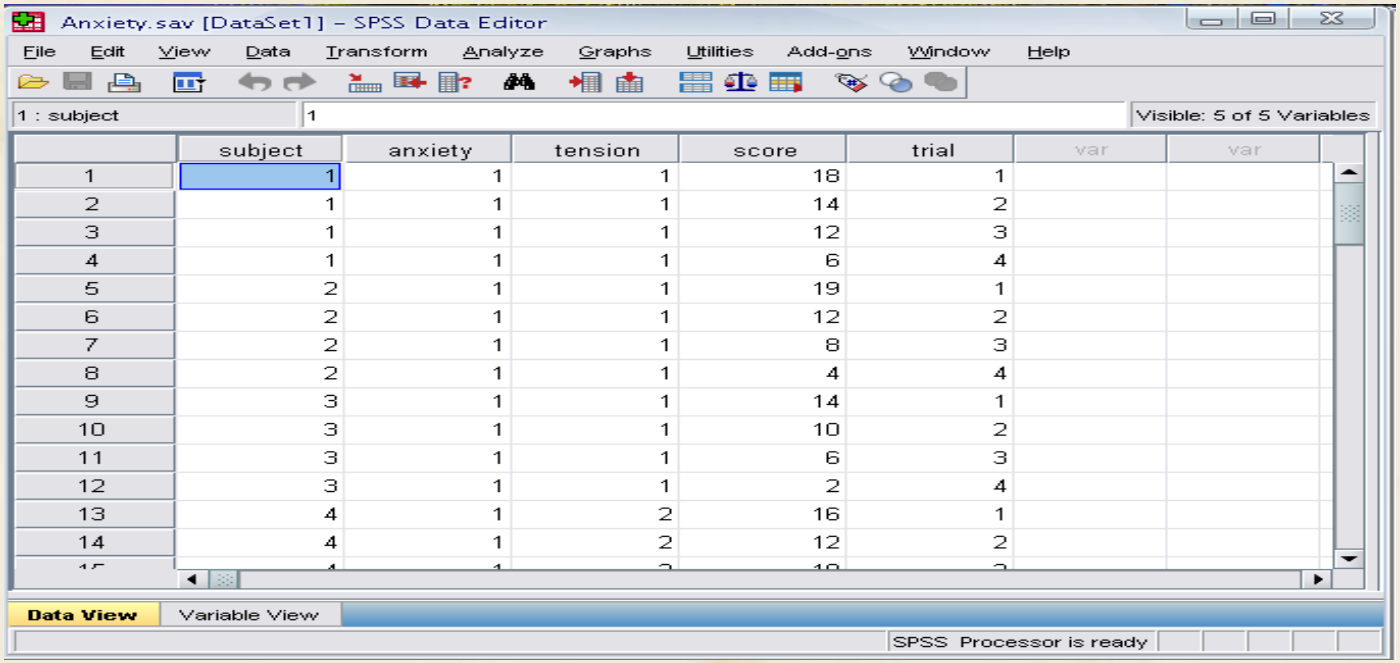
(The Four Windows)

- Data editor
- Output viewer
- Syntax editor
- Script window

The Four Windows: Data Editor

- Data Editor

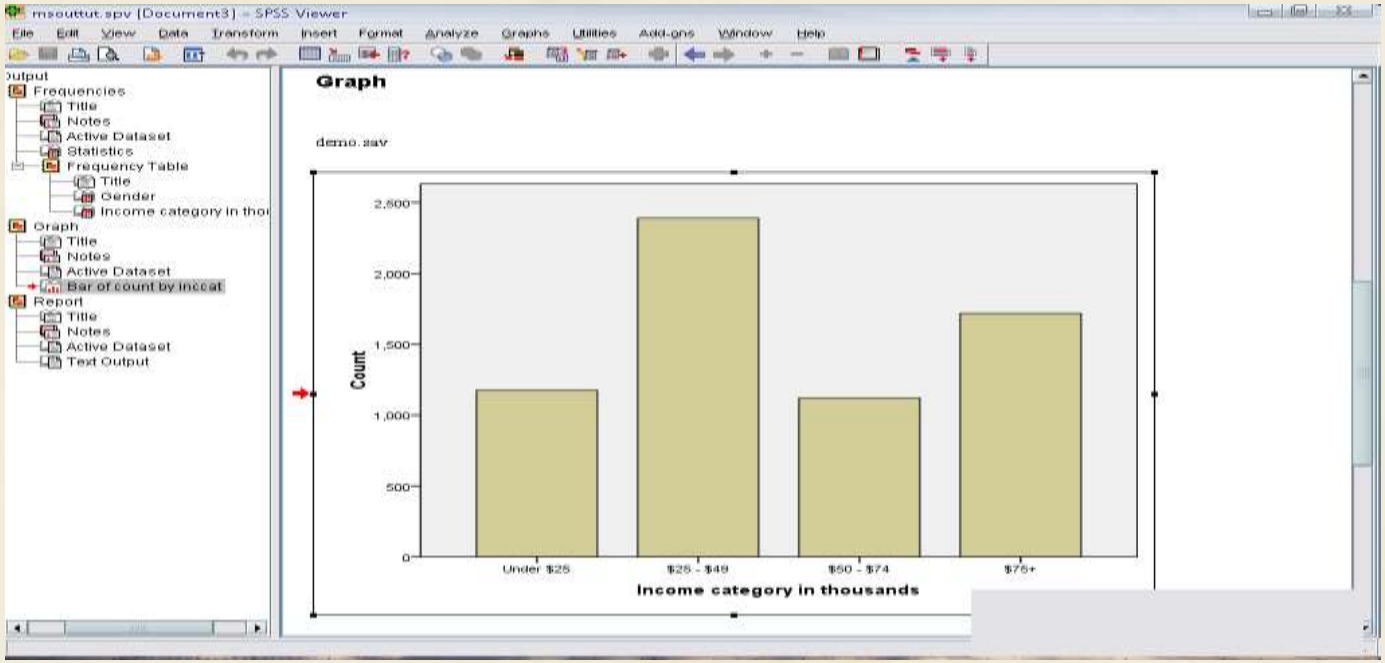
  Spreadsheet-like system for defining, entering, editing, and displaying data. Extension of the saved file will be “sav.”



The Four Windows: Output Viewer

- Output Viewer

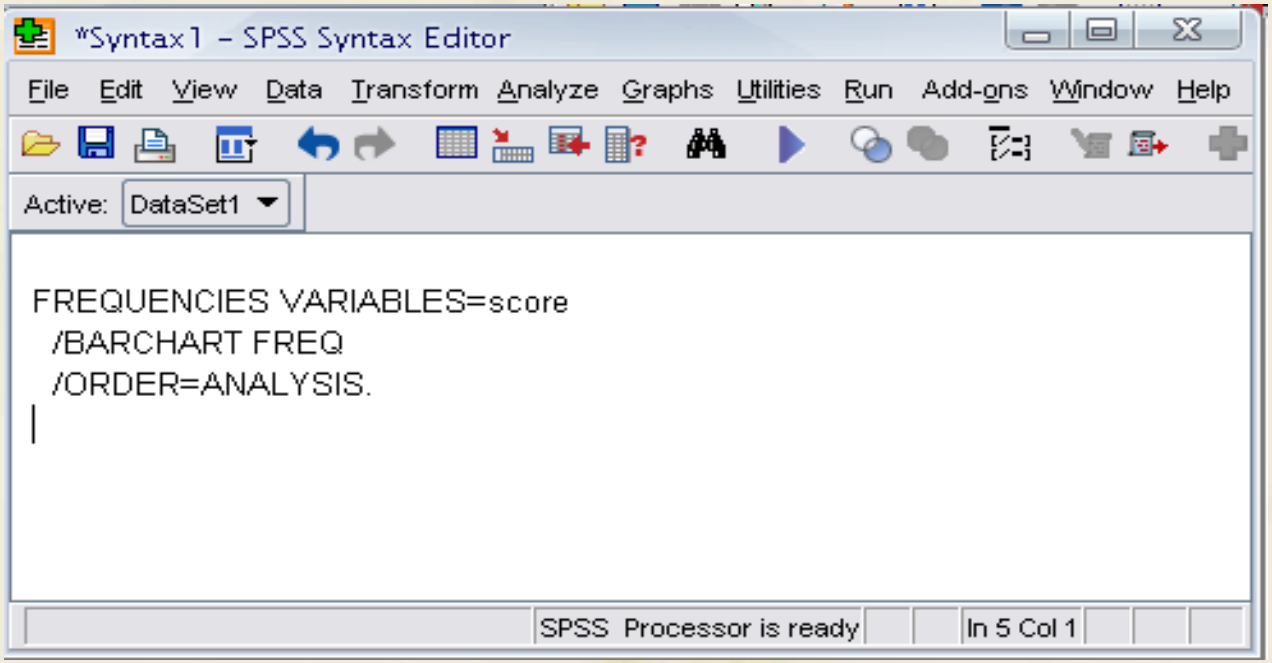
  Displays output and errors. Extension of the saved file will be “spv.”



The Four Windows: Syntax editor

- Syntax Editor

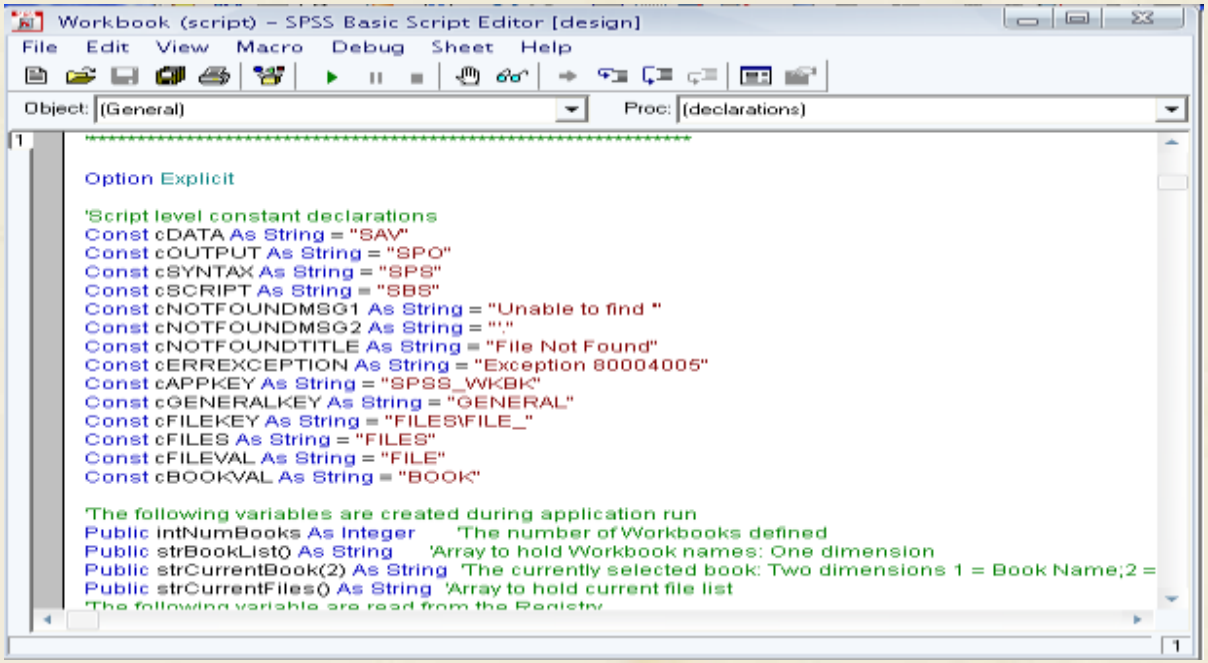
  Text editor for syntax composition. Extension of the saved file will be “sps.”



The Four Windows: Script Window
(for high peoples)

- Script Window

  Provides the opportunity to write full-blown programs, in a BASIC-like language. Text editor for syntax composition. Extension of the saved file will be “sbs.”

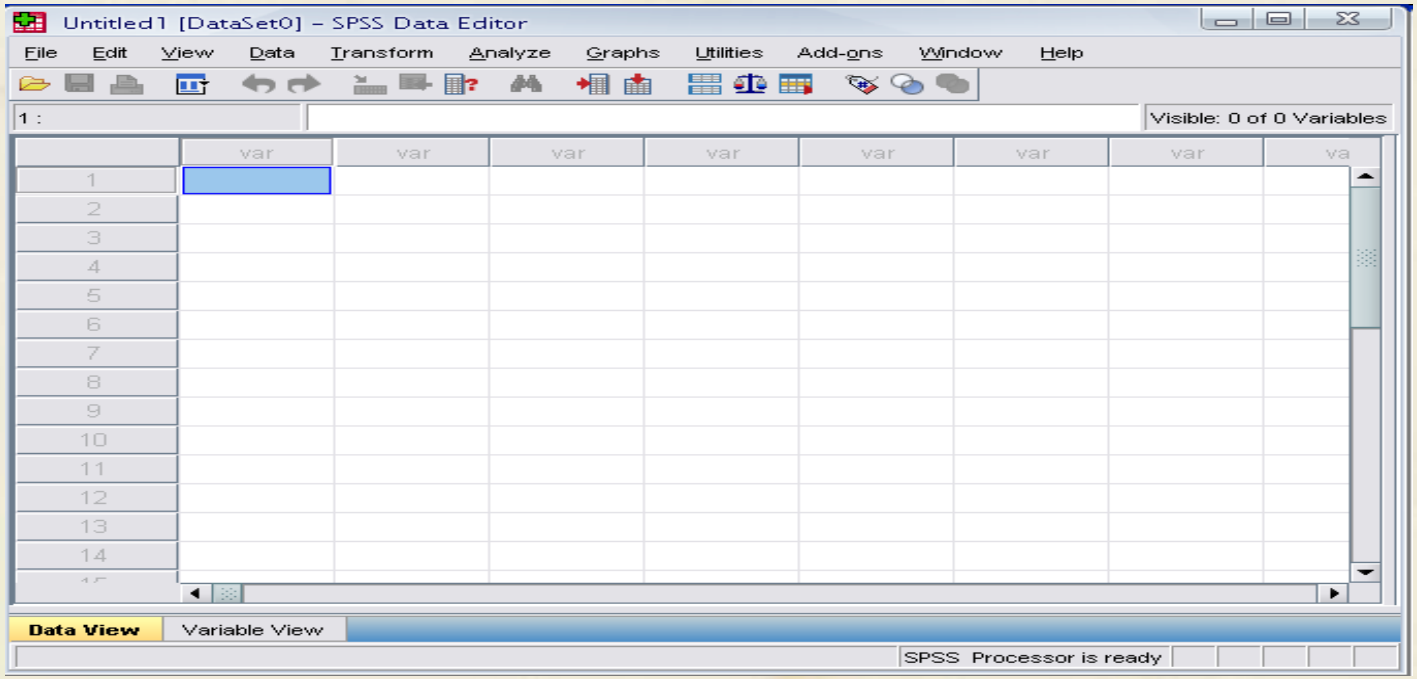


The basics of managing data files

Opening SPSS

- The default window will have the data editor
- There are two sheets in the window:

  1. Data view 2. Variable view

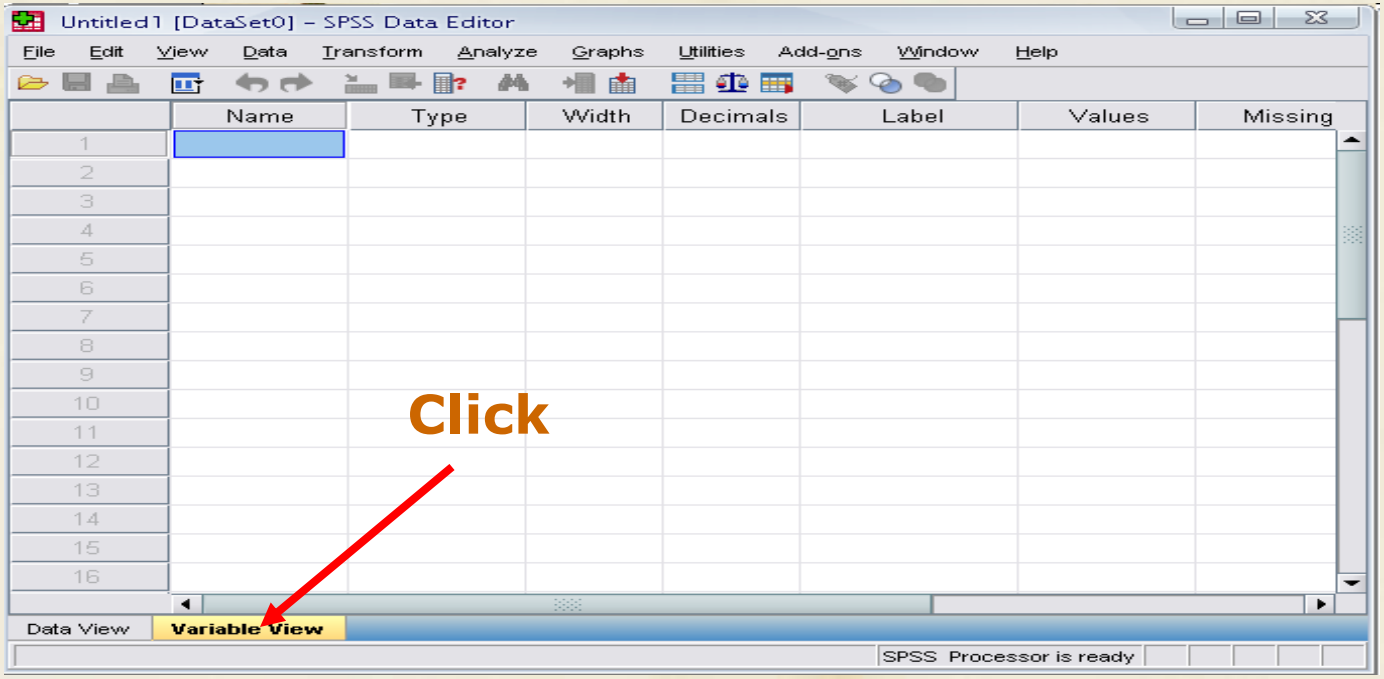


Data View window

- The Data View window

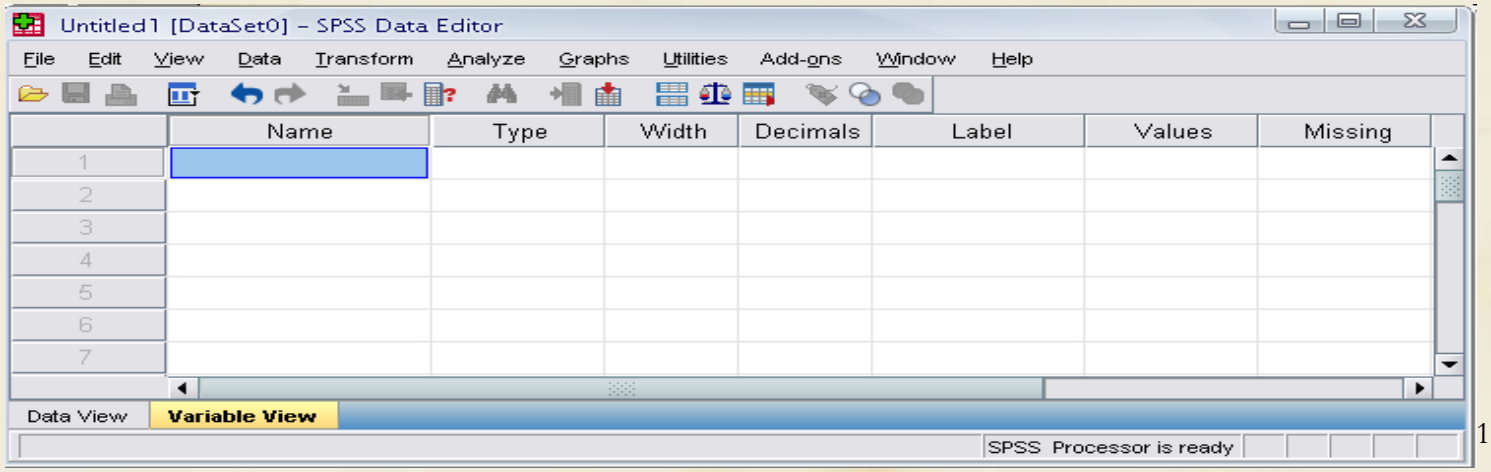
  This sheet is visible when you first open the Data Editor and this sheet contains the data

- Click on the tab labeled Variable View



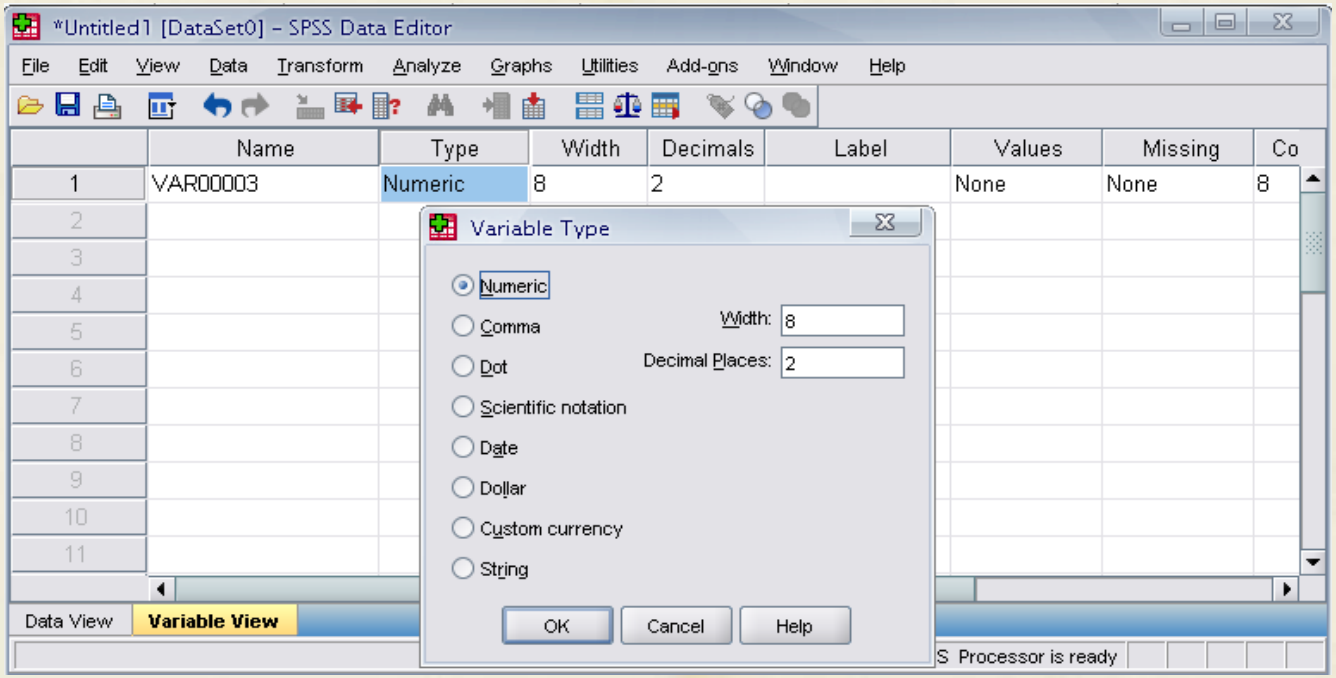
Variable View window

- This sheet contains information about the data set that is stored with the dataset
- Name
  - The first character of the variable name must be alphabetic
  - Variable names must be unique, and have to be less than 64 characters.
  - Spaces are NOT allowed.



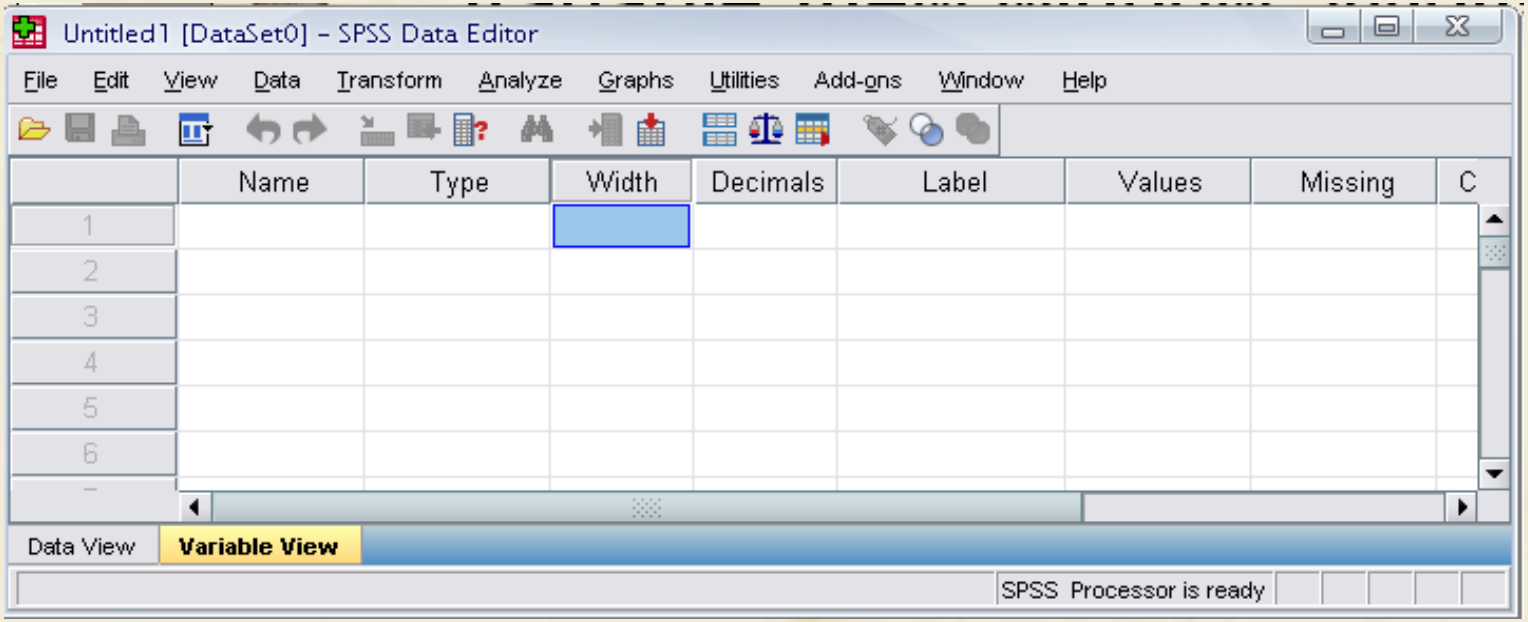
Variable View window: Type

- Type
  - Click on the ‘type’ box. The two basic types of variables that you will use are numeric and string. This column enables you to specify the type of variable.



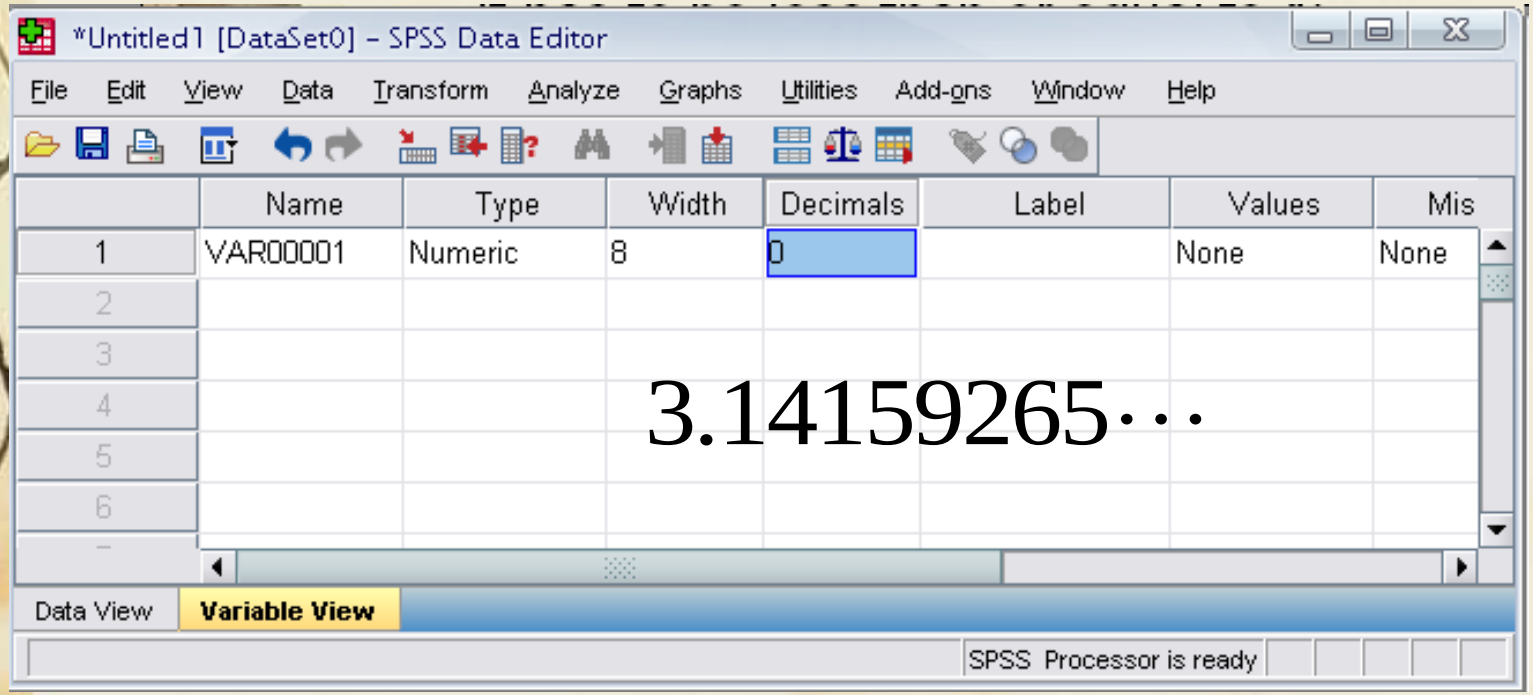
Variable View window: Width

- Width
  - Width allows you to determine the number of characters SPSS will allow to be entered for the variable



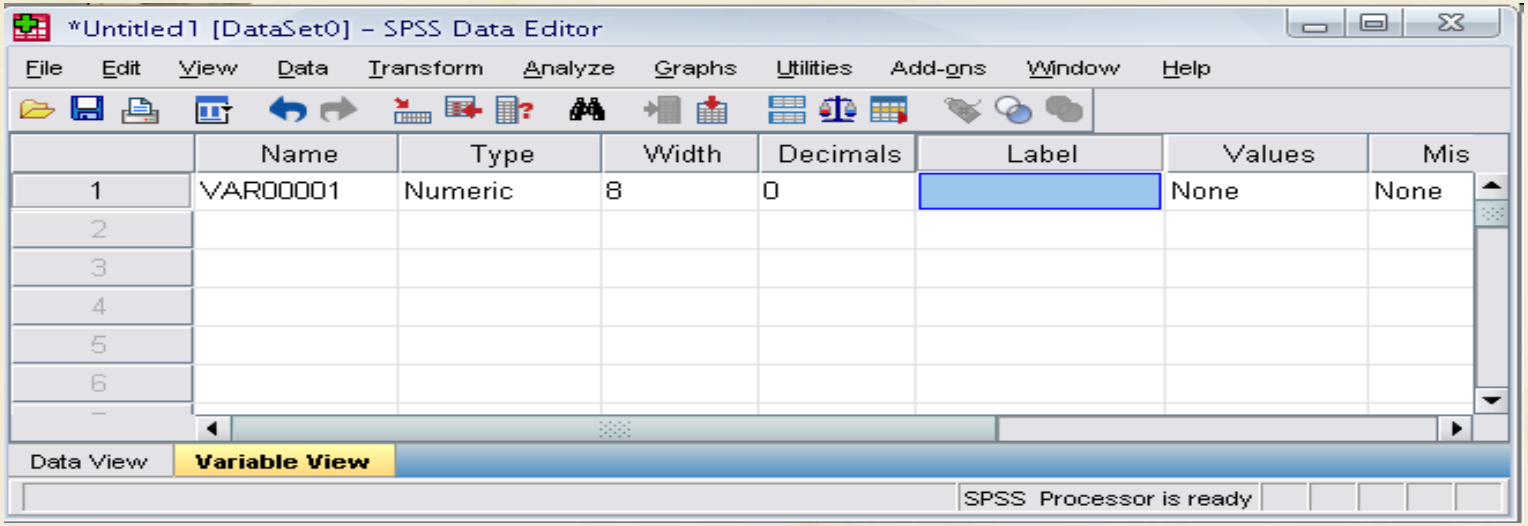
Variable View window: Decimals

- Decimals
  - Number of decimals
  - It has to be less than or equal to 16



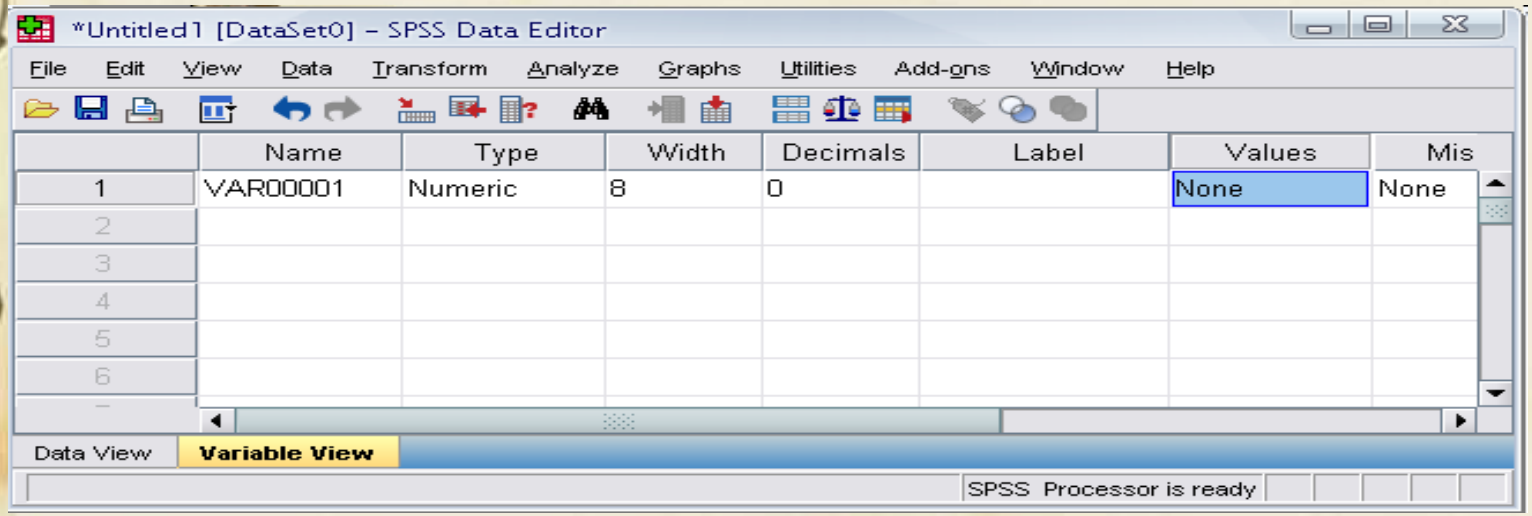
Variable View window: Label

- Label
  - You can specify the details of the variable
  - You can write characters with spaces up to 256 characters



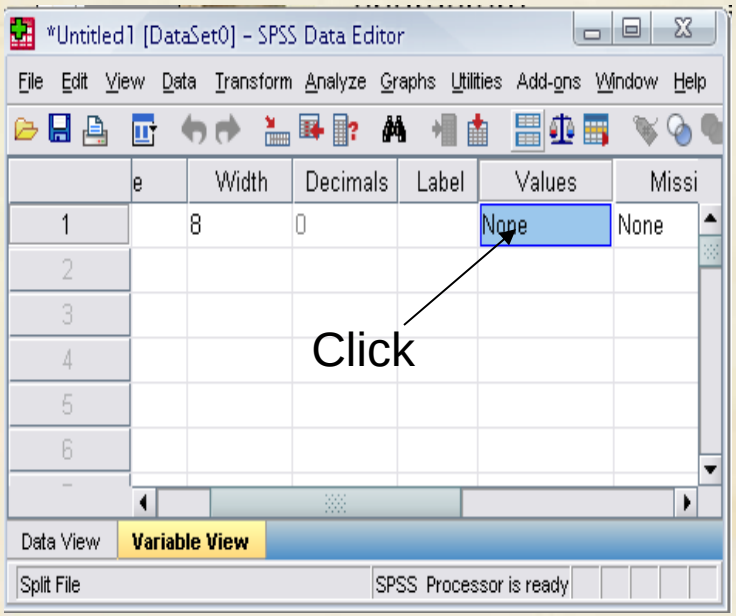
Variable View window: Values

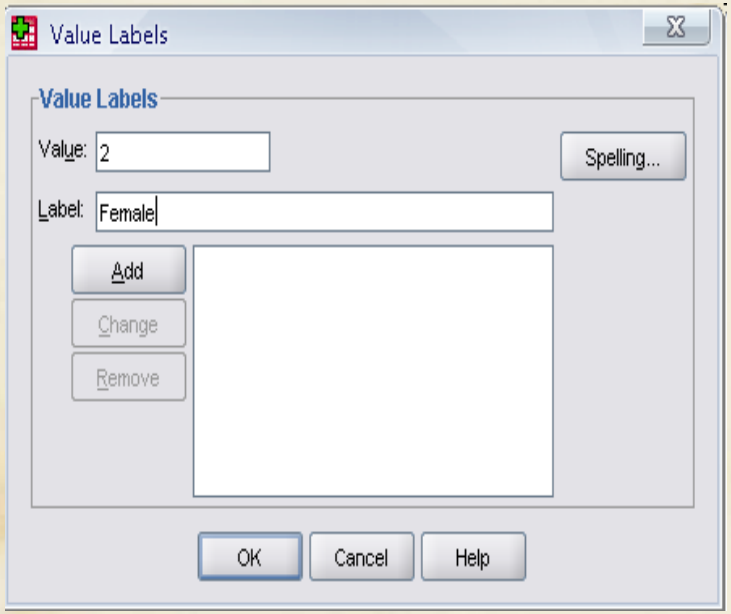
- Values
  - This is used and to suggest which numbers represent which categories when the variable represents a category



Defining the value labels

- Click the cell in the values column as shown below
- For the value, and the label, you can put up to 60 characters.
- After defining the values click add and then click OK.





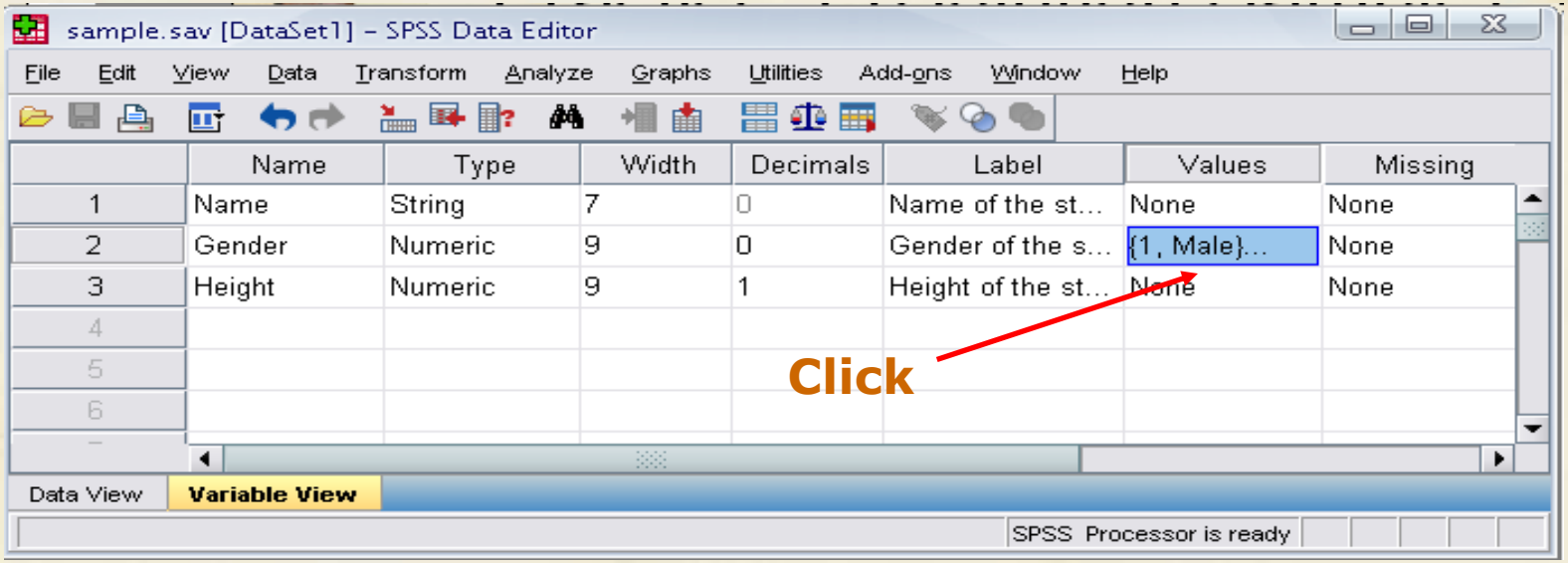
Practice 1

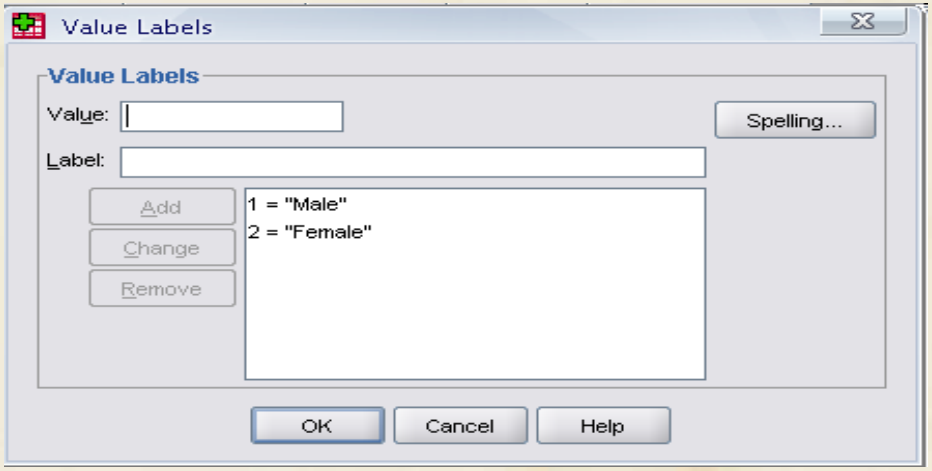
- How would you put the following information into SPSS?

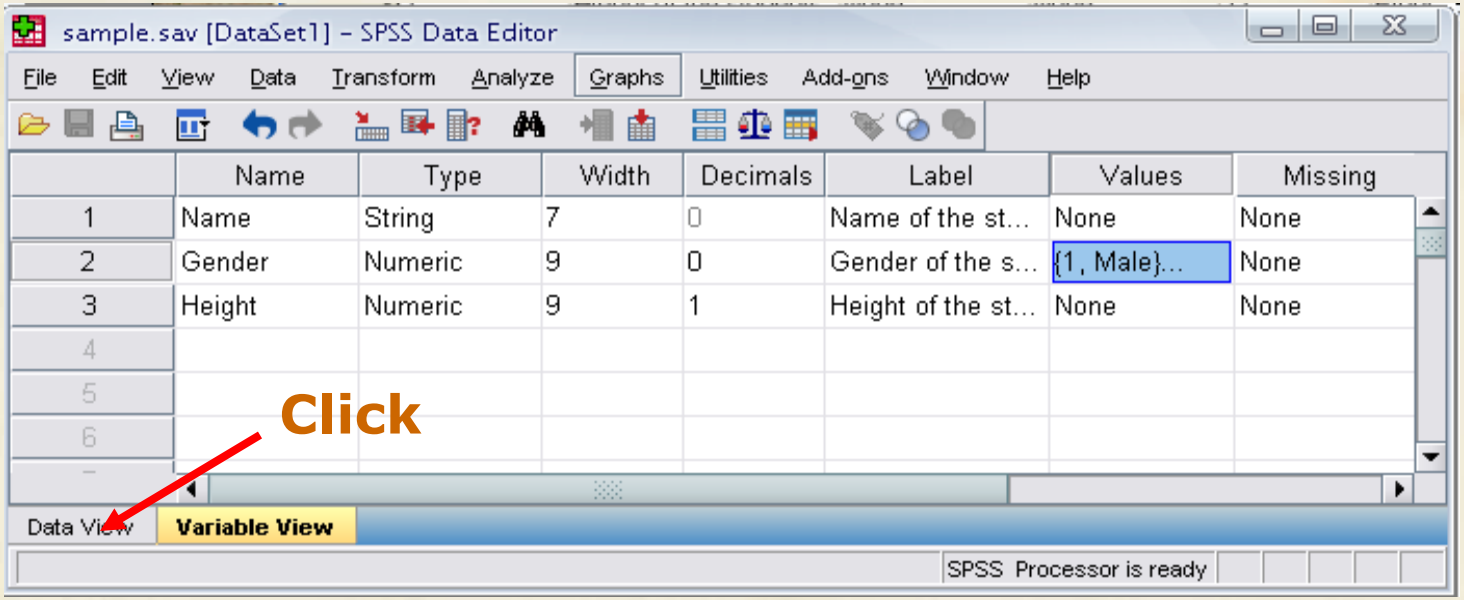
Name	Gender	Height
JAUNITA	2	5.4
SALLY	2	5.3
DONNA	2	5.6
SABRINA	2	5.7
JOHN	1	5.7
MARK	1	6
ERIC	1	6.4
BRUCE	1	5.9

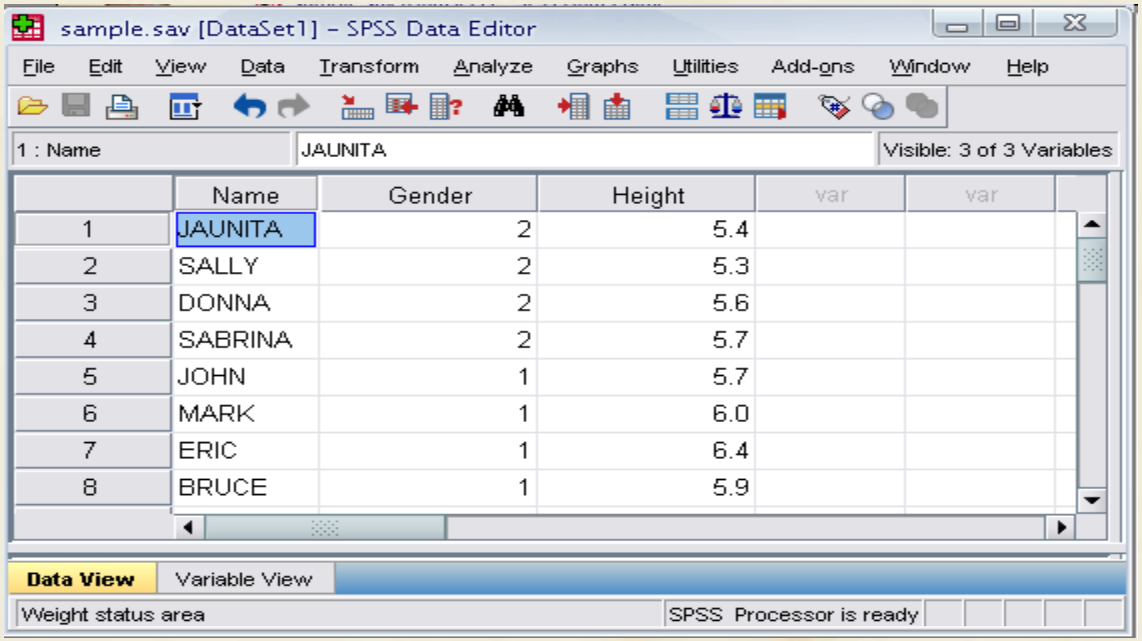
Value = 1 represents Male and Value = 2 represents Female

Practice 1 (Solution Sample)






sample.sav [DataSet1] – SPSS Data Editor
File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help
Name Type Width Decimals Label Values Missing
1 Name String 7 0 Name of the st... None None
2 Gender Numeric 9 0 Gender of the s... {1, Male}... None
3 Height Numeric 9 1 Height of the st... None None
4
5
6
Click
Data View
Variable View
SPSS Processor is ready


sample.sav [DataSet1] – SPSS Data Editor
File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help
1 : Name
JAUNITA
Visible: 3 of 3 Variables
Name Gender Height var var
1 JAUNITA 2 5.4
2 SALLY 2 5.3
3 DONNA 2 5.6
4 SABRINA 2 5.7
5 JOHN 1 5.7
6 MARK 1 6.0
7 ERIC 1 6.4
8 BRUCE 1 5.9
Data View
Variable View
Weight status area
SPSS Processor is ready

Saving the data

- To save the data file you created simply click ‘file’ and click ‘save as.’ You can save the file in different forms by clicking “Save as type.”