SPSS

Lect.:

Faiza Mahmood

Objectives :

- What is **SPSS** ?
- Historical background
- Used in
- Feature of **SPSS**
- Getting into program
- Advantages & Disadvantages

What is SPSS ?

- SPSS - Statistical Package for the Social Sciences
- SPSS is a comprehensive and flexible statistical analysis and data management solution.
- SPSS is a computer program used for survey authoring and deployment, data mining, text analytics, statistical analysis, and collaboration and deployment
- SPSS can take data from almost any type of file and use them to generate tabulated reports, charts, and plots of distributions and trends, descriptive statistics, and conduct complex statistical analyses
- SPSS is among the most widely used programs for statistical analysis in social science.

Historical background

- Its is developed by Norman H. Nie and C. Hadlai Hull of IBM Corporation in the year 1968. It is compatible with Windows, Linux, UNIX & Mac operating systems. SPSS is among the most widely used programs for statistical analysis in social science.

Used in

- Telecommunications
- Banking
- Finance
- Insurance
- Healthcare
- Manufacturing
- Retail
- Consumer packaged goods
- Higher education , etc….

Feature of **SPSS :**

- It is easy to learn and use
- It includes a full range of data management system and editing tools.
- It provides in-depth statistical capabilities
- It offers complete plotting, reporting and presentation features.

Getting into program :

-The Four Windows:

- Data Editor
- Output Viewer
- Syntax editor
- Script Window

Getting into program :

Opening SPSS in windows 7

START – ALL PROGRAMS – SPSS INS –SPSS 16.0

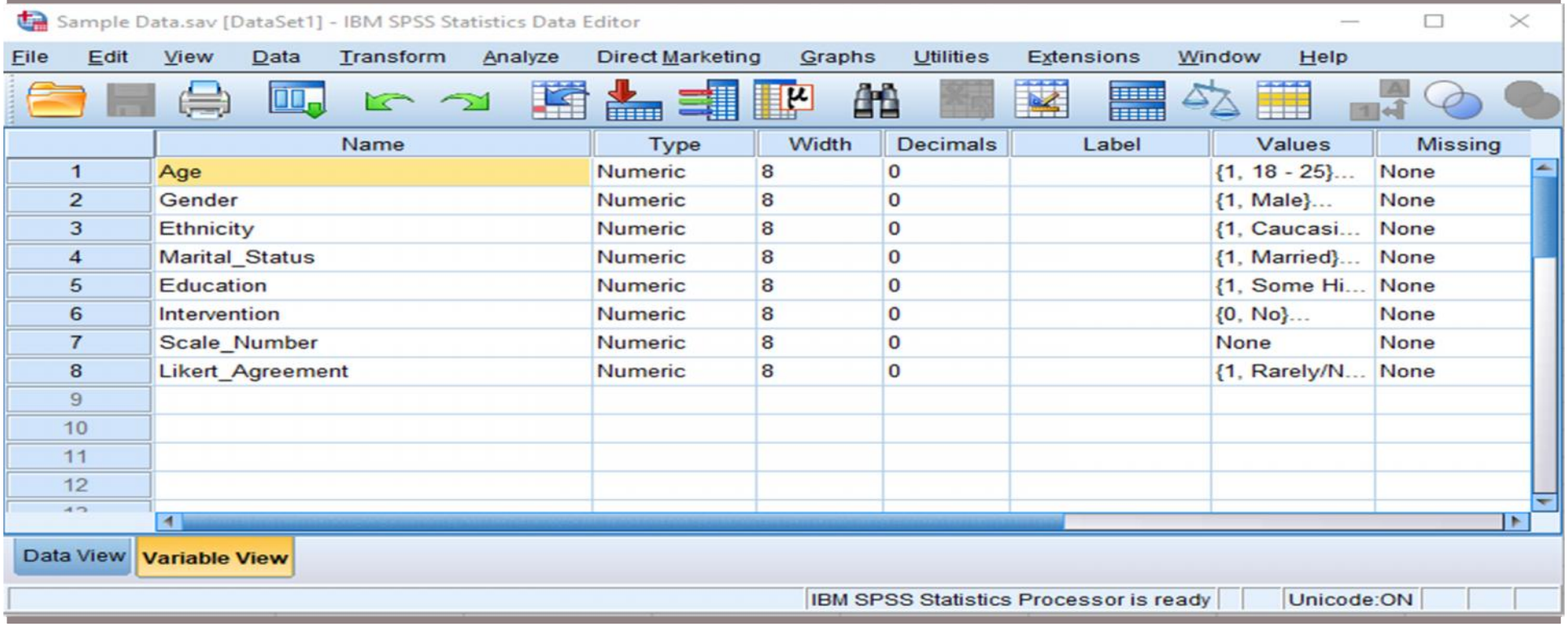
The program widows :

-There Four Windows:

- Data Editor
- Output Viewer
- Syntax editor
- Script Window

The four windows :data editor

- Data editor : spread sheet-like the system for defining ,entering, editing and displaying data. Extension of the saved file will be “sav”

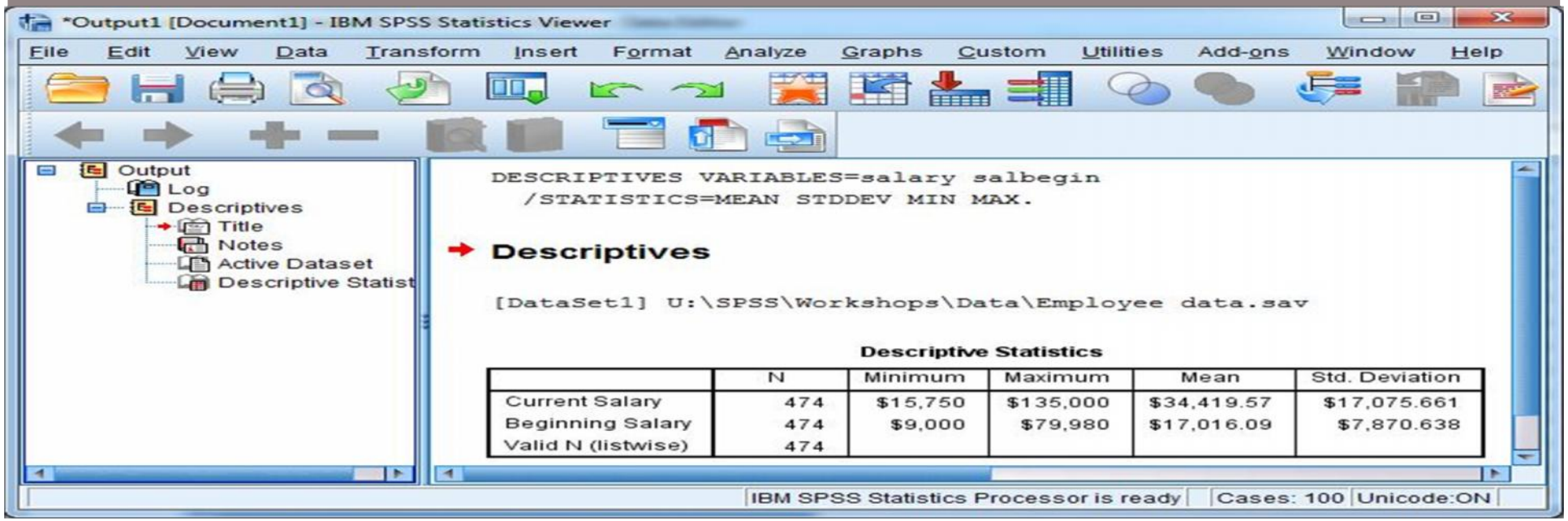


	Name	Type	Width	Decimals	Label	Values	Missing
1	Age	Numeric	8	0		{1, 18 - 25}...	None
2	Gender	Numeric	8	0		{1, Male}...	None
3	Ethnicity	Numeric	8	0		{1, Caucasi...	None
4	Marital_Status	Numeric	8	0		{1, Married}...	None
5	Education	Numeric	8	0		{1, Some Hi...	None
6	Intervention	Numeric	8	0		{0, No}...	None
7	Scale_Number	Numeric	8	0		None	None
8	Likert_Agreement	Numeric	8	0		{1, Rarely/N...	None
9							
10							
11							
12							

The four windows :output viewer

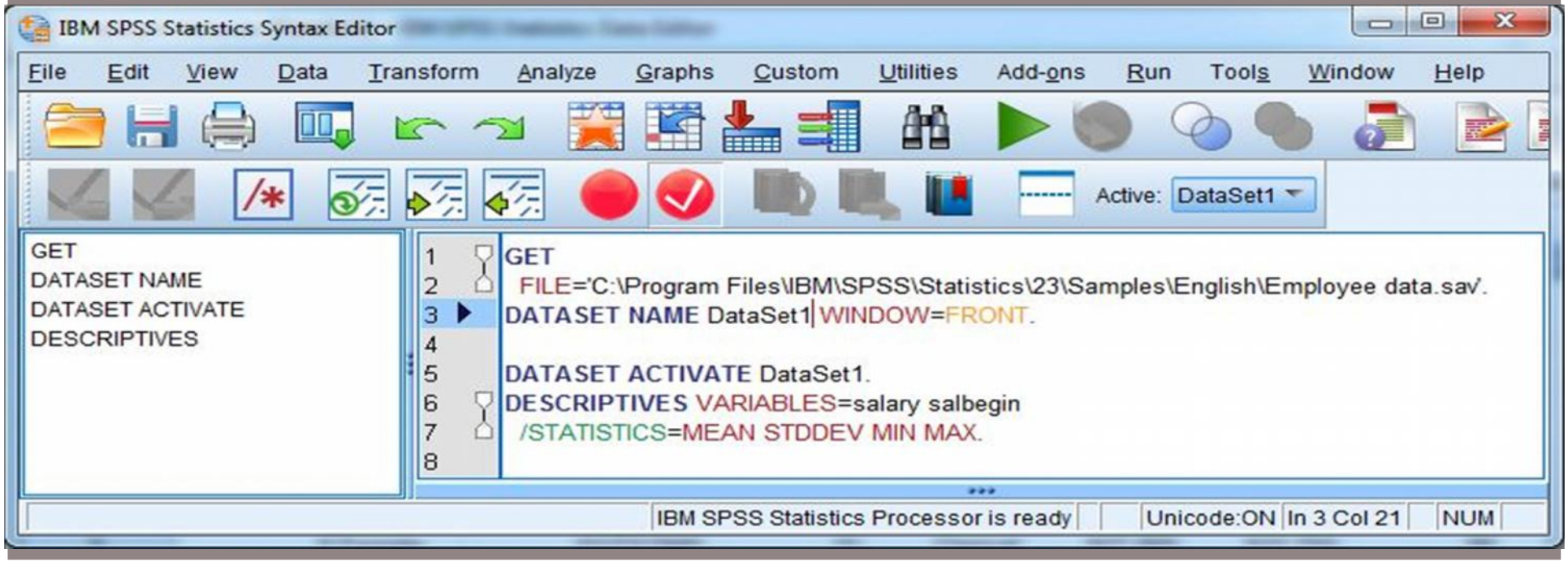
Output viewer :

Display output and errors .Extension of the saved file will be "spv"



The four windows :syntax editor

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

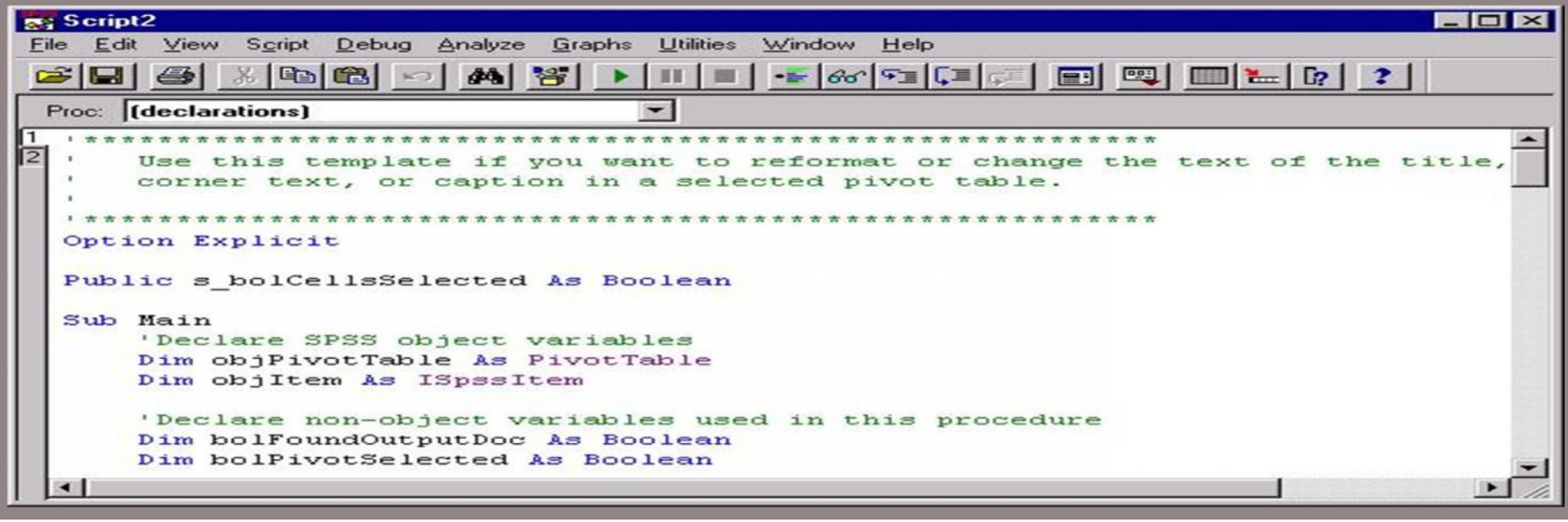


The four windows : Script window

Script window

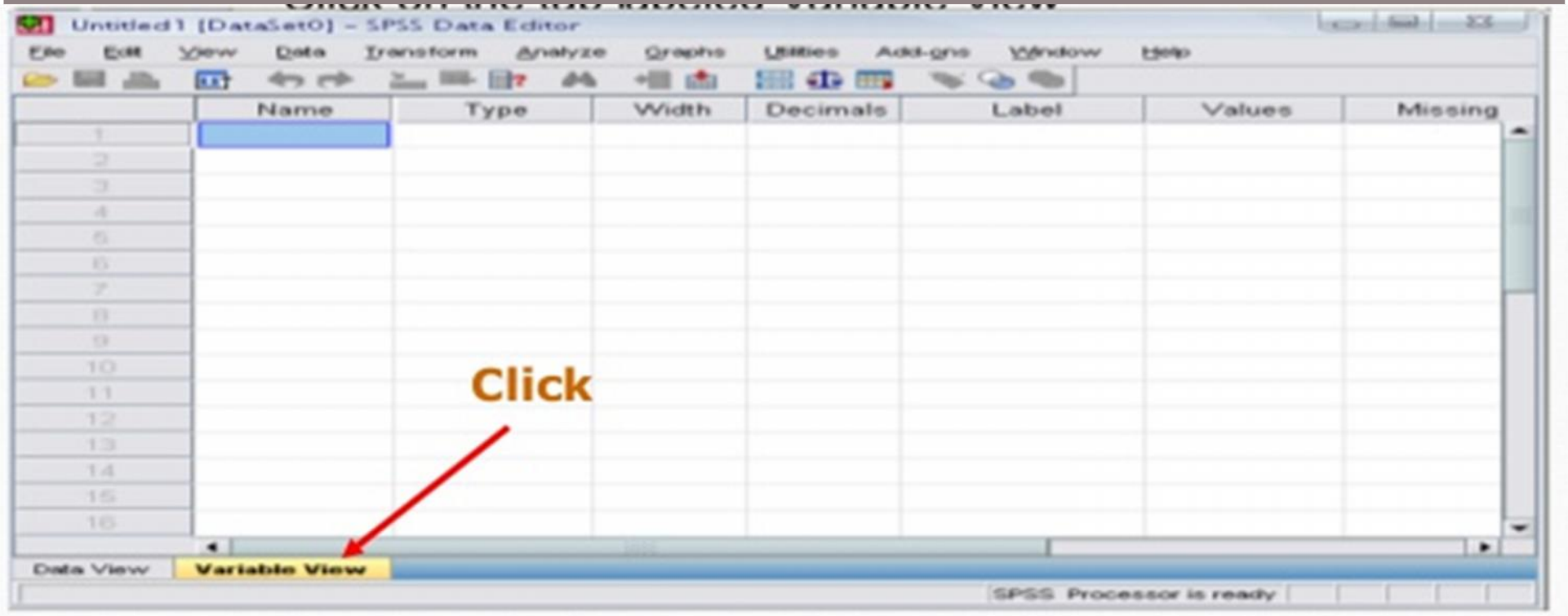
provides the opportunity to write full – blown programs ,in

A BASIC-like languages . Extension of the saved file will be “sbs”



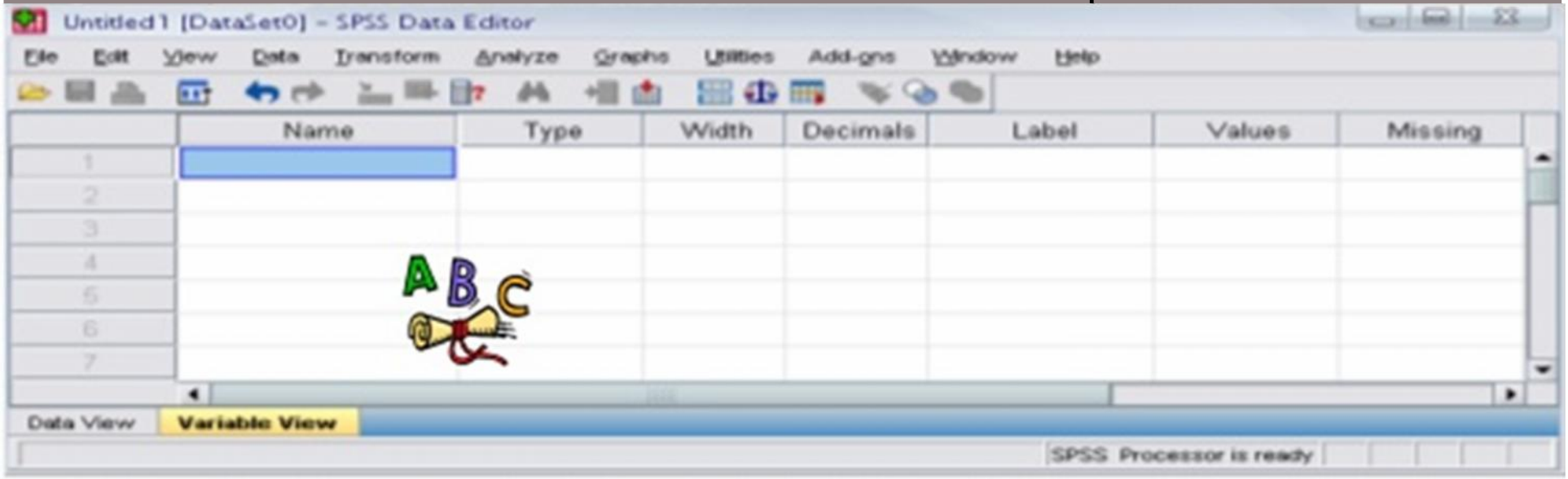
data view window:

- **This sheet is visible when you first open the data editor and this sheet contains the data**



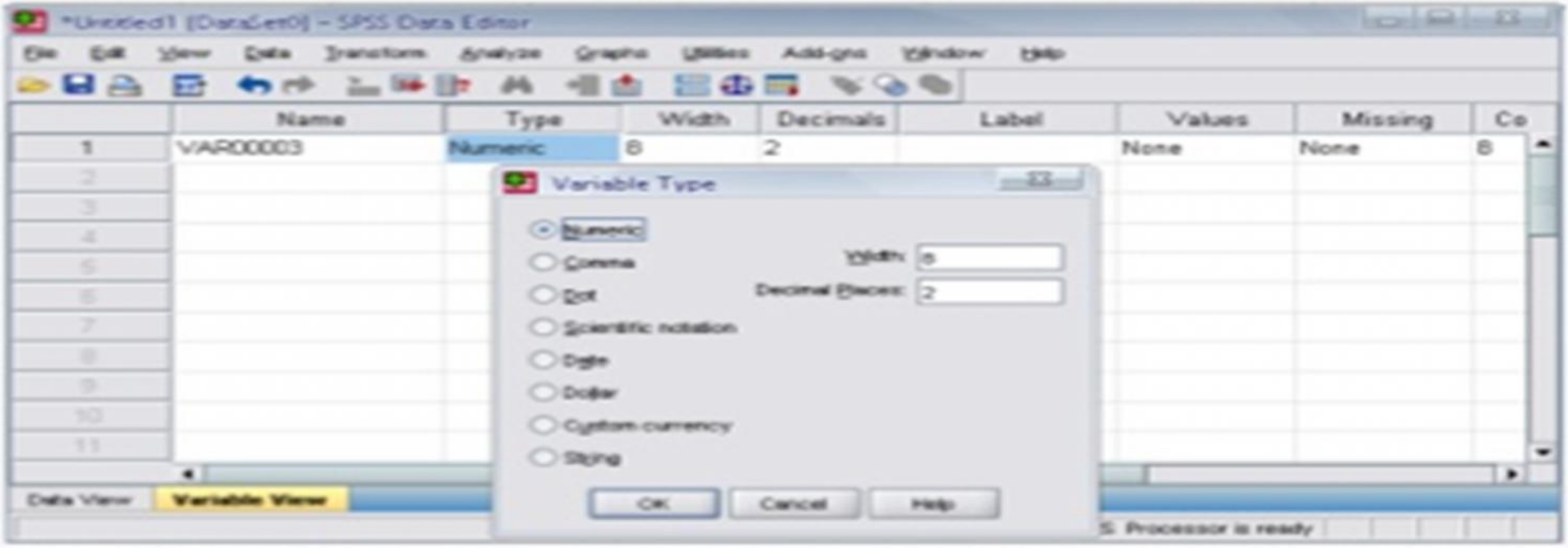
variable view window:

- 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 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.

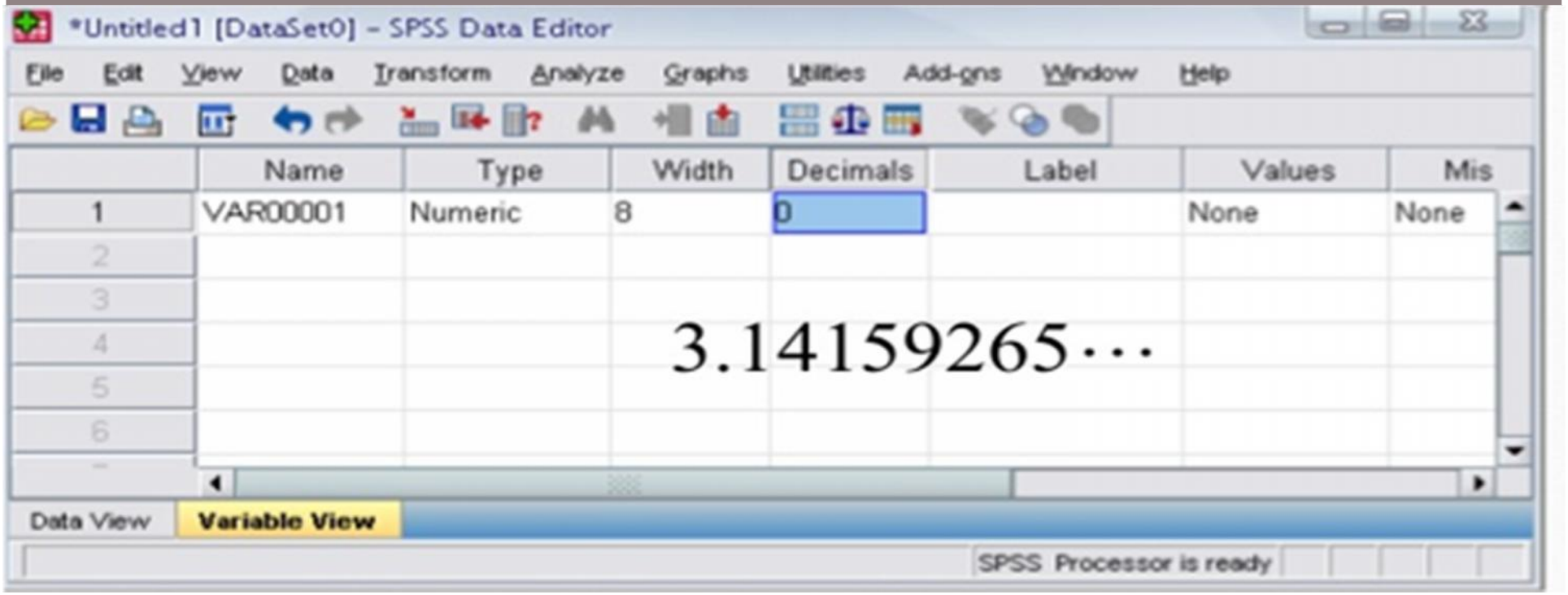


variable view window: width

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

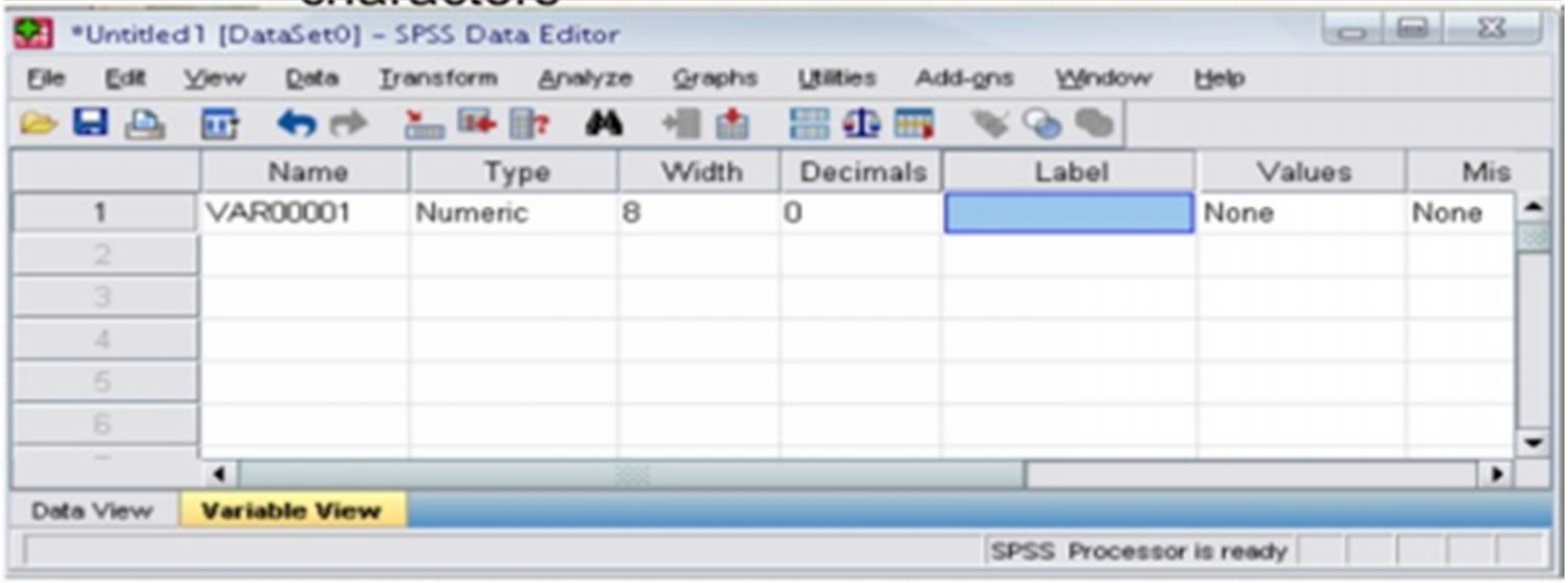
variable view window: Decimals

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



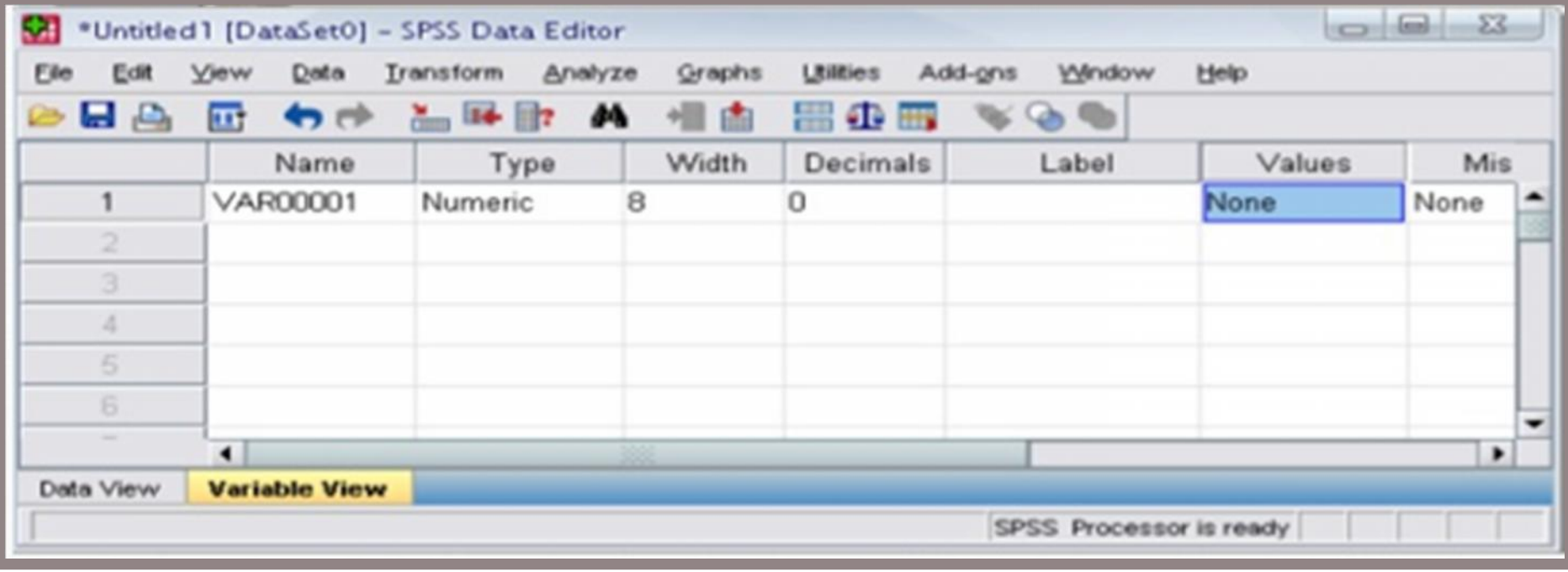
Variable View Window: Label

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



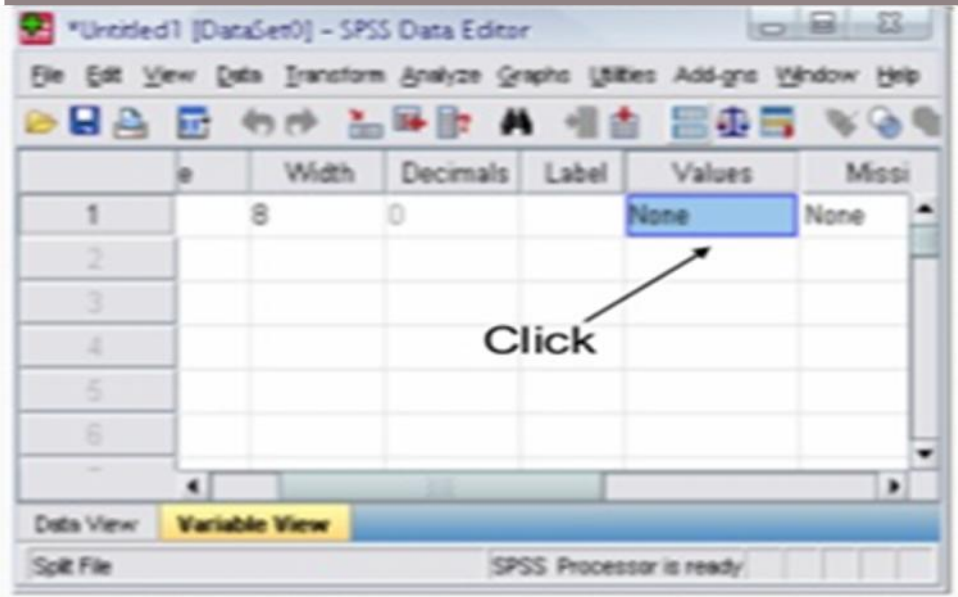
Variable View Window: Values

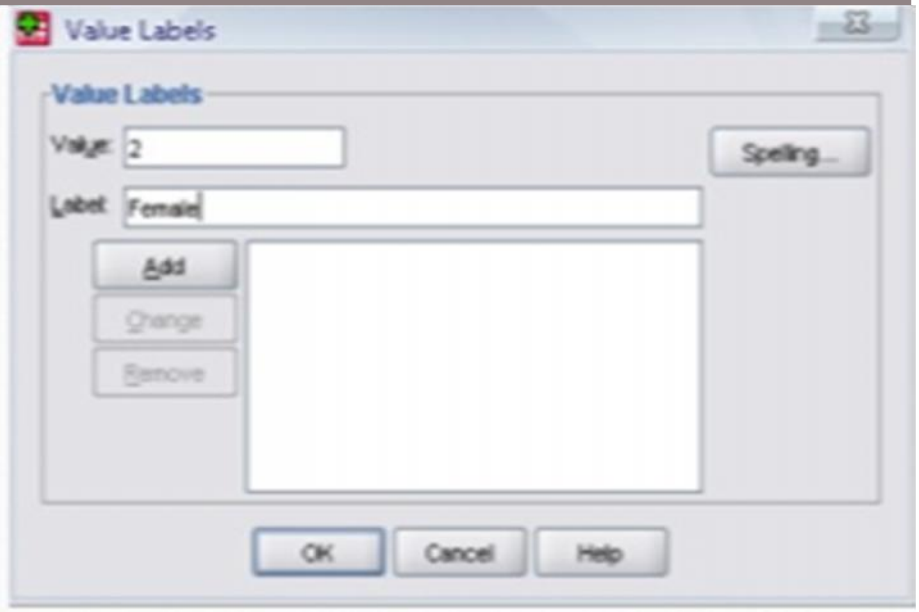
- This is used to suggest which numbers represent which categories when the variable represents a category .



defining The Value Labels :

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





Advantages :

- SPSS offers a user friendliness that most packages are only now catching up to. It is popular, and though that is certainly not a reason for choosing a statistical package, many data sets are easily loaded into it and other programs can easily import SPSS files.

Disadvantages

- For academic use SPSS lags notably behind SAS, R and even perhaps others that are on the more mathematical rather than statistical side for modern data analysis
- Its menu offerings are typically the most basic of an analysis and sometimes lacking even then, and it makes doing an inappropriate analysis very easy.
- It is expensive, sometimes ridiculously so, and even when you do buy youre really only leasing, and its license is definitely not user friendly.
- There are often compatibility issues with prior