

## Homework # 5

### Exercise 1:

**Produce one program to reply to every question, one Log file and one Output file.**

Run the following program to create a temporary SAS data set we will call Voter:

Data Voter;

Input Age Party : \$1. (Quest1-Quest4)(\$1. +1);

Datalines;

23	D	1	1	2	2
45	R	5	5	4	1
67	D	2	4	3	3
39	R	4	4	4	4
19	D	2	1	2	1
75	D	3	3	2	3
57	R	4	3	4	4

;

1. Add LABELS according to the following:

Variable	Label
Ques1	The president is doing a good job
Ques2	Congress is doing a good job
Ques3	Taxes are too high
Ques4	Government should cut spending

Where 1= strongly Disagree, 2 = Disagree; 3=No opinion; 4=Agree; 5=Strongly Agree

2. Use Proc Print to list the observations and Proc Freq to list the frequencies for the four questions.
3. Format Age(0-25; 26-50; 51-75; 75 +) and Ques1 to Ques4.
4. In fact, we want the frequencies for Questions 1to 4 to be in 3 categories:  
Generally Disagree; ( combine Strongly Disagree and Disagree)  
No Opinion and Generally Agree( combine Agree and Strongly Agree).  
Use a new format to do this.
5. Make the data set Voter permanent and place it in a folder of your choice
6. Make the labels and formats permanent in this data set and make your formats permanent as well (place them in the same library as the data set).  
Use the FMTLIB option with PROC FORMAT when you run this procedure.

### Exercise 2:

**Produce one program to reply to every question, one Log file and one Output file.**

1. Using the datalines below, create a permanent SAS data set called "RESULTS". The Variables are: E1, E2, E3, CS, ID
2. Use Proc Print and Proc Contents to view the data portion and the descriptor portion(the variables should be displayed as in the order of the data set). Comment on your findings.

datalines:

0.844	0.76	0.913	Stat101	1
0.889	0.73	0.93	Stat101	2
0.90	0.77	0.84	Stat101	3
0.74	0.69	0.61	Stat101	4
0.94	0.76	0.31	Stat101	5
0.87	0.73	0.85	Stat101	6
0.26	0.74	0.90	Stat101	7

3. Enhance your program by labeling the variables as follows:

VARIABLE	LABEL
E1	Exam 1 grade
E2	Exam 2grade
E3	Exam 3grade
CS	Lass Section
ID	Student ID

4. Transform the values of E1, E2, E3 into percentages
5. Format the values of E1, E2,E3 into letter scale:

Less than 50%	F
60% - 50 %	D
80% - 60%	C
90% - 80%	B
100% - 90%	A

Use Proc Freq to list the frequencies of the three grades.

- 6- Use format ranges to group the grades into three categories: Weak (less than 60%), Medium(80% to 60%), Good (more than 80%)
- 7- Store these formats in a Format library and display your format definitions