

SOCY699C—Statistical Programming in SAS Fall 2000—Homework #3

1. You are given the following data:

1. *OWNER*: Name of Home Owner
2. *DESCRIP*: Description of Home Improvement Project
3. *COST*: Cost of Project

<i>Owner</i>	<i>DESCRIP</i>	<i>COST</i>
Bob	kitchen cabinet face-lift	1253.00
Shirley	bathroom addition	11350.70
Silvia	paint exterior	.
Al	backyard gazebo	3098.63
Norm	paint interior	647.77
Kathy	second floor addition	75362.93

- a) Write a SAS program to read these data.
- b) Use the IF/ELSE construct to create a new variable called *COST1* where:

Value of <i>COST</i>	Value of <i>COST1</i>
.	Missing
< 2,000	Low
GE 2,000 and LT 10,000	Medium
GE 10,000	High

- c) Use the SELECT construct to create a new variable called *COST2* where:

Value of <i>COST</i>	Value of <i>COST2</i>
.	.
< 2,000	1
GE 2,000 and LT 10,000	2
GE 10,000	3

- d) Use PROC PRINT to display the data. Be sure to use a format statement with the dollar format to make the variable *COST* appear as dollars and cents (e.g. \$3,098.63).

2. You are given the following data:

1. *AGE*: Age of Respondent
2. *SEX*: Sex of Respondent
3. *INCOME*: Income of Respondent
4. *COLOR*: Respondent's Favorite Color

<i>AGE</i>	<i>SEX</i>	<i>INCOME</i>	<i>COLOR</i>
19	1	14000	Y
45	1	65000	G
72	2	35000	B
31	1	44000	Y
58	2	83000	W

Use PROC FORMAT and PROC PRINT to display your data so that:

Variable Coded	Formatted Output
<i>SEX</i>	
1	Male
2	Female
<i>COLOR</i>	
W	Moon White
B	Sky Blue
Y	Sunburst Yellow
G	Rain Cloud Grey
<i>AGE</i>	
13 up to but not including 20	Teen
20 up to but not including 65	Adult
65 and older	Senior