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NOTE: SAS (r) Proprietary Software 9.4 (TS1M5)

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NOTE: This session is executing on the X64_10PRO platform.

NOTE: Updated analytical products:

SAS/STAT 14.3

SAS/ETS 14.3

SAS/OR 14.3

SAS/IML 14.3

SAS/QC 14.3

NOTE: Additional host information:

X64_10PRO WIN 10.0.17134 Workstation

NOTE: SAS initialization used:

real time 1.10 seconds

cpu time 0.90 seconds

```
1
/*=====
=====
1 !=*/
2 /*=====Exercise
2 ! 1=====*/
```

```

3
/*=====
=====
3 !=*/
4
5 /*Ex 1-1 */
6 /*
7 - Create a library call Lab1 with the data Nutrition
8 */
9
10
/*=====
=====
10 !=*/
11
12 /*Ex 1-2*/
13 title1 'Summary of Nutrition Dataset';
14 footnote1;
15 footnote2;
16 PROC CONTENTS data=Lab1.Nutrition;
NOTE: Writing HTML Body file: sashtml.htm
17 RUN;

```

NOTE: PROCEDURE CONTENTS used (Total process time):

real time	0.50 seconds
cpu time	0.31 seconds

```

18 /*
19 - Number of Variables: 31

```

```

20 - Number of Observations: 405
21 - Variables of char data type: GENDER, VIT_A, VIT_B6, VIT_B12, VIT_C, VIT_D, VIT_E, VIT_K
22 */
23
24
/*=====
=====
24 !=*/
25
26 /*Ex 1-3*/
27 title1 'Display of Whole Nutrition Dataset';
28 footnote1;
29 footnote2;
30 PROC PRINT data=Lab1.Nutrition;
31 RUN;

```

NOTE: There were 405 observations read from the data set LAB1.NUTRITION.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.39 seconds
cpu time	0.35 seconds

```

32 /*
33 - Char Variable "FOLATE" has no value, so the missing values are displayed as "."
34 - Num Variable "VIT_B12" has no value, so the missing values are displayed as " "
35 */
36
37
/*=====
=====

```

```

37 !=*/
38
39 /*Ex 1-4*/
40 OPTIONS linesize=128;
41 title1 'Display of Observations From 10 to 20';
42 footnote1;
43 footnote2;
44 PROC PRINT data=Lab1.Nutrition (firstobs=10 obs=20);
45 RUN;

```

NOTE: There were 11 observations read from the data set LAB1.NUTRITION.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.03 seconds
cpu time	0.03 seconds

```

46 /*
47 - set the linesize=128 to make the result look better
48 */
49
50
51 /*=====Exercise
2=====*/
52
53
54 DATA Lab1.males3000kcal;

```

```
55   Set Lab1.Nutrition;  
56   Where GENDER = "M" AND KCAL >= 3000;  
57 RUN;
```

NOTE: There were 49 observations read from the data set LAB1.NUTRITION.

WHERE (GENDER='M') and (KCAL>=3000);

NOTE: The data set LAB1.MALES3000KCAL has 49 observations and 31 variables.

NOTE: DATA statement used (Total process time):

real time	0.03 seconds
cpu time	0.03 seconds

```
58 PROC SORT data=Lab1.males3000kcal;  
59   by descending KCAL;  
60 RUN;
```

NOTE: There were 49 observations read from the data set LAB1.MALES3000KCAL.

NOTE: The data set LAB1.MALES3000KCAL has 49 observations and 31 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.02 seconds
cpu time	0.03 seconds

```
61 title1 'Nutrition Data of Males With Calorie Intake Over 3000 Kcal';  
62 footnote1 'Displayed Intake Variables: KCAL, VIT_A, VIT_D, FIBER, IRON, PROTEIN';  
63 footnote2 'Displayed Value: first 15 by descending order';  
64 PROC PRINT data=Lab1.males3000kcal (firstobs=1 obs=15);  
65   var GENDER KCAL VIT_A VIT_D FIBER IRON PROTEIN;  
66 RUN;
```

NOTE: There were 15 observations read from the data set LAB1.MALES3000KCAL.

NOTE: PROCEDURE PRINT used (Total process time):

real time 0.03 seconds

cpu time 0.01 seconds

67

68

```
/*=====
=====*/
```

69 /*=====Exercise

3=====*/

70

```
/*=====
=====*/
```

71

72 PROC SORT data=Lab1.Nutrition out=sorted_IRON_FIBER;

73 by descending IRON FIBER;

74 RUN;

NOTE: There were 405 observations read from the data set LAB1.NUTRITION.

NOTE: The data set WORK.SORTED_IRON_FIBER has 405 observations and 31 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time 0.03 seconds

cpu time 0.00 seconds

75 title1 'Nutrition Data of Females With Iron Intake Less Than 4 and Fiber Intake Less Than 4';

76 footnote1 'Displayed Intake Variables: KCAL, VIT_A, VIT_D, FIBER, IRON, PROTEIN';

```
77 footnote2;
78 OPTIONS pagesize=20;
79 PROC PRINT data=sorted_IRON_FIBER;
80   var GENDER KCAL VIT_A VIT_D FIBER IRON PROTEIN;
81   Where GENDER = "F" AND IRON < 4 AND FIBER < 4;
82 RUN;
```

NOTE: There were 2 observations read from the data set WORK.SORTED_IRON_FIBER.

WHERE (GENDER='F') and (IRON<4) and (FIBER<4);

NOTE: PROCEDURE PRINT used (Total process time):

real time 0.03 seconds

cpu time 0.00 seconds

```
83
```

```
84 /*
```

```
85 - Only 2 women meet these criteria
```

```
86 */
```