Program Summary - HW8.sas

Execution Environment

Author:	sasdemo
File:	/folders/myfolders/Homework/HW8/HW8.sas
SAS Platform:	Linux LIN X64 2.6.32-696.20.1.el6.x86_64
SAS Host:	LOCALHOST
SAS Version:	9.04.01M5P09132017
SAS Locale:	en_US
Submission Time:	11/13/2018, 8:24:46 PM
Browser Host:	10.0.2.2
User Agent:	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.102 Safari/537.36
Application Server:	LOCALHOST.LOCALDOMAIN

Code: HW8.sas

```
/*Jonthan Wilson HW 8 */

%let path=/folders/myfolders/Homework/HW8;
libname mydata "&path";

/*Create Data set */

data mydata.employees;
   length state $ 12;/*This helped give me the full length of Washington*/
   input lname $ fname $ age job $ gender $ group state $;
   datalines;
Smith Al 55 Man M 1 Texas
Jones Ted 38 SR2 M 2 Vermont
Hall Kim 22 SR1 M 2 Vermont
Jones Kim 19 Sec F 1 Maryland
Clark Guy 31 SR1 M 2 Maryland
Grant Herbert 51 Jan M 3 Texas
Schmidt Henry 62 Mec M 4 Washington
Allen Joe 45 Man M 1 Vermont
Call Steve 43 SR2 M 2 Maryland
McCall Mac 26 Sec F 1 Texas
Sue Joe 25 Mec F 4 Texas
Murphy Cori 21 SR1 F 2 Washington
Love Sue 27 SR2 F 2 Washington
;

/*#1 employees1  */

data mydata.employees1;
   set mydata.employees;
/*Group*/
   length boss $ 7;
   length state $ 12;
   if group=1 then
      boss="john";
```

```
   else if group=2 then
      boss="carl";
   else if group=3 then
      boss="harold";
   else boss="jacob";
/*Local */
   if state='Texas' then
      local=11;
   else if state='Vermont' then
      local=22;
   else if state='Washington' then
      local=33;
   else local=44;
run;
```

```
proc print data=mydata.employees1 label noobs;
    label lname="Last Name" fname="First Name";
    format state $12.;
    var lname fname age job gender group state boss local;
    title1 'HW 8 Employees 1';
run;

/* proc contents data=mydata.employees1 varnum; */
/* run; */

/*#2 employees1  */
```

```
proc format;
    value bossFrm 1='john'/*1 is the read in value. 'john' is what you want to format to*/
                  2='carl'
                  3='harold'
                  4='jacob';

/*When to use a dollar sign? When you are reading IN a char*/
    invalue $localFrm 'Texas'=11
                      'Vermont'=22
                      'Washington'=33
                      'Maryland'=44;
run;
```

```
data mydata.employees2;
   set mydata.employees;
   /*Group*/
   length boss $ 7;
   length state $ 12;
   if group=1 then
      boss= put(group, bossFrm.);/*put(valReadIn, format)*/
   else if group=2 then
      boss= put(group, bossFrm.);
   else if group=3 then
      boss= put(group, bossFrm.);
   else boss= put(group, bossFrm.);
/*Local */
   if state='Texas' then
      local = input(state, localFrm.);
   else if state='Vermont' then
      local = input(state, localFrm.);
```

```
   else if state='Washington' then
      local = input(state, localFrm.);
   else local = input(state, localFrm.);
run;

proc print data=mydata.employees2 label noobs;
    label lname="Last Name" fname="First Name";
    format state $12.;
    var lname fname age job gender group state boss local;
    title1 'HW 8 Employees 2';
run;

/* proc contents data=mydata.employees2 varnum; */
/* run; */
```

Log: HW8.sas

Notes (18)

```
1          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
72
73         /*Jonthan Wilson HW 8 */
74
75         %let path=/folders/myfolders/Homework/HW8;
76         libname mydata "&path";
NOTE: Libref MYDATA was successfully assigned as follows:
      Engine:        V9
      Physical Name: /folders/myfolders/Homework/HW8
77
78         /*Create Data set */
79
80         data mydata.employees;
81            length state $ 12;/*This helped give me the full length of Washington*/
82            input lname $ fname $ age job $ gender $ group state $;
83            datalines;

NOTE: The data set MYDATA.EMPLOYEES has 13 observations and 7 variables.
NOTE: DATA statement used (Total process time):
      real time           0.06 seconds
      cpu time            0.02 seconds


97         ;
98
99         /*#1 employees1  */
100
101        data mydata.employees1;
102           set mydata.employees;
103        /*Group*/
104           length boss $ 7;
105           length state $ 12;
106           if group=1 then
107              boss="john";
108           else if group=2 then
109              boss="carl";
110           else if group=3 then
111              boss="harold";
112           else boss="jacob";
113        /*Local */
114           if state='Texas' then
```

```
115             local=11;
116          else if state='Vermont' then
117             local=22;
118          else if state='Washington' then
119             local=33;
120          else local=44;
121       run;

NOTE: There were 13 observations read from the data set MYDATA.EMPLOYEES.
NOTE: The data set MYDATA.EMPLOYEES1 has 13 observations and 9 variables.
NOTE: DATA statement used (Total process time):
      real time           0.06 seconds
      cpu time            0.02 seconds


122
123       proc print data=mydata.employees1 label noobs;
124       label lname="Last Name" fname="First Name";
125       format state $12.;
126       var lname fname age job gender group state boss local;
127       title1 'HW 8 Employees 1';
128       run;

NOTE: There were 13 observations read from the data set MYDATA.EMPLOYEES1.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.18 seconds
      cpu time            0.17 seconds


129
130       /* proc contents data=mydata.employees1 varnum; */
131       /* run; */
132
133       /*#2 employees1  */
134
135       proc format;
136
136     !  value bossFrm 1='john'/*1 is the read in value. 'john' is what you want to format to*/
137         2='carl'
138         3='harold'
139         4='jacob';
NOTE: Format BOSSFRM is already on the library WORK.FORMATS.
NOTE: Format BOSSFRM has been output.
140
141       /*When to use a dollar sign? When you are reading IN a char*/
142
142     !  invalue $localFrm 'Texas'=11
143       'Vermont'=22
144       'Washington'=33
145       'Maryland'=44;
NOTE: Informat $LOCALFRM is already on the library WORK.FORMATS.
NOTE: Informat $LOCALFRM has been output.
146       run;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


147
148       data mydata.employees2;
149          set mydata.employees;
150          /*Group*/
```

```
151          length boss $ 7;
152          length state $ 12;
153          if group=1 then
154             boss= put(group, bossFrm.);/*put(valReadIn, format)*/
155          else if group=2 then
156             boss= put(group, bossFrm.);
157          else if group=3 then
158             boss= put(group, bossFrm.);
159          else boss= put(group, bossFrm.);
160       /*Local */
161          if state='Texas' then
162             local = input(state, localFrm.);
163          else if state='Vermont' then
164             local = input(state, localFrm.);
165          else if state='Washington' then
166             local = input(state, localFrm.);
167          else local = input(state, localFrm.);
168       run;

NOTE: There were 13 observations read from the data set MYDATA.EMPLOYEES.
NOTE: The data set MYDATA.EMPLOYEES2 has 13 observations and 9 variables.
NOTE: DATA statement used (Total process time):
      real time           0.05 seconds
      cpu time            0.02 seconds


169
170       proc print data=mydata.employees2 label noobs;
171       label lname="Last Name" fname="First Name";
172       format state $12.;
173       var lname fname age job gender group state boss local;
174       title1 'HW 8 Employees 2';
175       run;

NOTE: There were 13 observations read from the data set MYDATA.EMPLOYEES2.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.12 seconds
      cpu time            0.11 seconds


176
177       /* proc contents data=mydata.employees2 varnum; */
178       /* run; */
179
180       OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
193
```

Results: HW8.sas

HW 8 Employees 1

Last Name	First Name	age	job	gender	group	state	boss	local
Smith	Al	55	Man	M	1	Texas	john	11
Jones	Ted	38	SR2	M	2	Vermont	carl	22
Hall	Kim	22	SR1	M	2	Vermont	carl	22
Jones	Kim	19	Sec	F	1	Maryland	john	44
Clark	Guy	31	SR1	M	2	Maryland	carl	44
Grant	Herbert	51	Jan	M	3	Texas	harold	11
Schmidt	Henry	62	Mec	M	4	Washington	jacob	33
Allen	Joe	45	Man	M	1	Vermont	john	22
Call	Steve	43	SR2	M	2	Maryland	carl	44
McCall	Mac	26	Sec	F	1	Texas	john	11

Last Name	First Name	age	job	gender	group	state	boss	local
Sue	Joe	25	Mec	F	4	Texas	jacob	11
Murphy	Cori	21	SR1	F	2	Washington	carl	33
Love	Sue	27	SR2	F	2	Washington	carl	33

HW 8 Employees 2

Last Name	First Name	age	job	gender	group	state	boss	local
Smith	Al	55	Man	M	1	Texas	john	11
Jones	Ted	38	SR2	M	2	Vermont	carl	22
Hall	Kim	22	SR1	M	2	Vermont	carl	22
Jones	Kim	19	Sec	F	1	Maryland	john	44
Clark	Guy	31	SR1	M	2	Maryland	carl	44
Grant	Herbert	51	Jan	M	3	Texas	harold	11
Schmidt	Henry	62	Mec	M	4	Washington	jacob	33
Allen	Joe	45	Man	M	1	Vermont	john	22
Call	Steve	43	SR2	M	2	Maryland	carl	44
McCall	Mac	26	Sec	F	1	Texas	john	11
Sue	Joe	25	Mec	F	4	Texas	jacob	11
Murphy	Cori	21	SR1	F	2	Washington	carl	33
Love	Sue	27	SR2	F	2	Washington	carl	33