

Below is the output from the print statement for the dataset:

1		Output	Dataset: S	STAT480 Ho	omework 3	3 Problem	1		1
2						17	7:36 Monday,	September 10	, 2018
3									
4		town_	town_			temp_	temp_		
5	Obs	name	number	month	year	low_F	high_F		
6									
7	1	Kane	20	12	2005	12	25		
8	2	Ambler	22	12	2005	8	20		
9	3	Kane	20	1	2006	13	32		
10	4	Oakey	32	12	2005	30	50		
11	5	Oakey	32	1	2006	25	45		
12	6	Ambler	22	1	2006	15	28		

Listing 1: "City Temperature Records"

Next is the output for the descriptor of the dataset that was created:

1	Output Datas	et: STAT48				2				
2			17	:36 Monday,	September 1	0, 2018				
3			n n 1							
4	The CONTENTS Procedure									
5	Data Cat Name	00 IWA70 D1		01	_	C				
6 7		80.HW3_P1		Observation Variables		6 6				
8	J I			Indexes		0				
9	0	/2018 17:3	6.50	Observation		48				
10		/2018 17:3		Deleted Ob	O	0				
11	Protection 03/10	72010 17.3	0.55	Compressed		NO.				
12	Data Set Type			Sorted	_	VO				
13	Label			Jorton	1					
14	Data Representation WINDO	WS 64								
15	1	Unicode	(UTF-8)							
16	0									
17										
18	Engine/	Host Depen	dent Infori	nation						
19										
20	Data Set Page Size	е	65536							
21	Number of Data Se	1								
22	First Data Page		1							
23	Max Obs per Page	1361								
24	Obs in First Data	6								
25	Number of Data Se	t Repairs	0							
26	ExtendObsCounter		YES							
27	Filename	C:\STAT480\hw3_p1.sas7bdat								
28		Release Created			9.0401M5					
29		Host Created			X64_10HOME					
30		Owner Name			DESKTOP-0I3H148\ksali					
31		File Size			128KB					
32	File Size (bytes)		131072							
33 34										
34 35	Alphabetic L	ist of War	iahlas and	Attributos						
36	Aipiiauetic L	ist of val	Tables allu	Attiibutes						
37	# V	ariable	Type	Len						
38	πV	arrable	rype	Len						
39	3 m	onth	Num	8						
40		emp_high_F		8						
41		emp_low_F	Num	8						
42		wn name	Char	8						
43		wn_number		8						
44		ear	Num	8						

Listing 2: "City Temperature Records Descriptor"

Problem 2

The following is the output from printing the rats dataset:

1	Output Dataset: STAT480 Homework 3 Problem 2								
2									
3			rat_						
4	0	bs r	number	dob	disease	death	group		
5									
6		1	1	16924	16975	16980	A		
7		2	2	16922	16979	16987	A		
8		3	3	16924	16977	16983	A		
9		4	4	16928	16989	16997	A		
10	!	5	5	16923	16981	17004	В		
11		6	6	16927	16985	17015	В		
12	,	7	7	11081	16983	17011	В		
13		8	8	16930	16997	17031	В		

Listing 3: "Rats Data"

SAS CODE

```
1 LIBNAME STAT480 'C:\STAT480\';
3 DATA STAT480.hw3_p1;
      INPUT town_name $ town_number month year temp_low_F temp_high_F;
4
5
      DATALINES;
6
      Kane 20 12 2005 12 25
      Ambler 22 12 2005
                          8 20
      Kane 20 01 2006 13 32
8
      Oakey 32 12
9
                    2005 30 50
      Oakey 32 01 2006 25 45
10
     Ambler 22 01 2006 15 28
11
12
13 RUN;
14
15 PROC PRINT data=STAT480.hw3_p1;
title 'Output Dataset: STAT480 Homework 3 Problem 1';
18
19 PROC CONTENTS data=STAT480.hw3_p1;
20 OPTIONS LS=80 CENTER;
21 RUN;
22 DATA rats;
23 INFILE 'C:\STAT480\rats.dat';
     INPUT
24
25
         @1 rat_number 1.
26
         +2 dob date9.
         @13 disease date9.
27
28
         @23 death mmddyy8.
29
         @32 group $1.
30
31 RUN;
32 PROC PRINT data=rats;
33
      OPTIONS LS=78 PS=56 CENTER NODATE;
      title 'Output Dataset: STAT480 Homework 3 Problem 2';
34
35 RUN;
```

SAS LOG FILE

```
1 NOTE: Copyright (c) 2016 by SAS Institute Inc., Cary, NC, USA.
2 NOTE: SAS (r) Proprietary Software 9.4 (TS1M5)
        Licensed to PENNSYLVANIA STATE UNIVERSITY - SFA T&R, Site 70080099.
4 NOTE: This session is executing on the X64_10HOME platform.
6
8 NOTE: Updated analytical products:
9
10
        SAS/STAT 14.3
        SAS/ETS 14.3
11
12
        SAS/IML 14.3
13
        SAS/QC 14.3
14
15 NOTE: Additional host information:
16
17 X64_10HOME WIN 10.0.17134 Workstation
18
19 NOTE: SAS initialization used:
        real time 0.73 seconds
20
21
        cpu time
                           0.64 seconds
22
23 1 LIBNAME STAT480 'C:\STAT480\';
```

```
24 NOTE: Libref STAT480 was successfully assigned as follows:
25
         Engine:
26
         Physical Name: C:\STAT480
27 2
28 3
        DATA STAT480.hw3_p1;
            INPUT town_name $ town_number month year temp_low_F temp_high_F;
29 4
30 5
            DATALINES;
31
32 NOTE: Data file STAT480.HW3_P1.DATA is in a format that is native to another host, or
        the file
33
         encoding does not match the session encoding. Cross Environment Data Access
       will be used, which
         might require additional CPU resources and might reduce performance.
35 NOTE: The data set STAT480.HW3_P1 has 6 observations and 6 variables.
36 NOTE: DATA statement used (Total process time):
37
         real time
                             0.02 seconds
38
         cpu time
                             0.01 seconds
39
40
41 12
       RUN:
42 13
43 14
44 15
       PROC PRINT data=STAT480.hw3_p1;
45 NOTE: Data file STAT480.HW3 P1.DATA is in a format that is native to another host, or
        the file
         encoding does not match the session encoding. Cross Environment Data Access
46
       will be used, which
         might require additional CPU resources and might reduce performance.
47
           title 'Output Dataset: STAT480 Homework 3 Problem 1';
48 16
49 17
       RUN:
50
51 NOTE: There were 6 observations read from the data set STAT480.HW3_P1.
52 NOTE: PROCEDURE PRINT used (Total process time):
                             0.02 seconds
         real time
54
         cpu time
                             0.03 seconds
55
56
57 18
58 19 PROC CONTENTS data=STAT480.hw3_p1;
59 NOTE: Data file STAT480.HW3_P1.DATA is in a format that is native to another host, or
        the file
         encoding does not match the session encoding. Cross Environment Data Access
60
       will be used, which
         might require additional CPU resources and might reduce performance.
61
           OPTIONS LS=80 CENTER;
62 20
       RUN;
63 21
64
65 NOTE: PROCEDURE CONTENTS used (Total process time):
                             0.02 seconds
66
         real time
67
         cpu time
                             0.00 seconds
68
69
70 22
       DATA rats:
           INFILE 'C:\STAT480\rats.dat';
71 23
           INPUT
72. 24
73 25
                @1 rat_number 1.
74 26
                +2 dob date9.
75 27
                @13 disease date9.
76 28
                @23 death mmddyy8.
77 29
                @32 group $1.
78 30
                ;
79 31
       RUN:
80
81 NOTE: The infile 'C:\STAT480\rats.dat' is:
         Filename=C:\STAT480\rats.dat,
        RECFM=V, LRECL=32767, File Size (bytes)=270,
```

```
84 Last Modified=10Sep2018:16:46:45,
85
        Create Time=10Sep2018:16:46:44
87 NOTE: 8 records were read from the infile 'C:\STAT480\rats.dat'.
         The minimum record length was 32.
88
         The maximum record length was 32.
89
90 NOTE: The data set WORK.RATS has 8 observations and 5 variables.
91 NOTE: DATA statement used (Total process time):
        real time 0.02 seconds
        cpu time
                         0.00 seconds
93
94
95
96 32 PROC PRINT data=rats;
97 33
        OPTIONS LS=78 PS=56 CENTER NODATE;
98 34
         title 'Output Dataset: STAT480 Homework 3 Problem 2';
99 35 RUN;
100
101 NOTE: There were 8 observations read from the data set WORK.RATS.
102 NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
104
       cpu time
                       0.00 seconds
```