```sas
1   ****************************************************************;
2   *   LESSON 4, PRACTICE 3                                      *;
3   *   a) Access the Base SAS 9.4 Procedures Guide. Find the     *;
4   *      PROC FORMAT section and the VALUE statement page.      *;
5   *      Scroll to the bottom of the page to look at            *;
6   *      examples where existing SAS formats are used for       *;
7   *      labels in a custom format.                             *;
8   *   b) Open p204p03.sas from the practices folder.            *;
9   *   c) Add a PROC FORMAT step to create a format named        *;
10  *      DECADE that categorizes dates as identified below.     *;
11  *      January 1, 2000 - December 31, 2009 => 2000-2009.      *;
12  *      January 1, 2010 - December 31, 2017 => 2010-2017.      *;
13  *      January 1, 2018 - March 31, 2018 => 1st Quarter 2018*;
14  *      April 1, 2018 and beyond => actual date value using *;
15  *                                  the MMDDYY10. format.      *;
16  *   d) Modify the PROC MEANS step so that the DECADE          *;
17  *      format is applied to the Date column.                  *;
18  *   e) Run the program and review the output. Verify that     *;
19  *      the descriptive values for the Date column are         *;
20  *      displayed.                                             *;
21  ****************************************************************;
22
23
24  /* Add a PROC FORMAT Step */
25  proc format;
26      value decade '01JAN2000'd - '31DEC2009'd = '2000-2009'
27                   '01JAN2010'd - '31DEC2017'd = '2010-2017'
28                   '01JAN2018'd - '31MAR2018'd = '1st Quarter 2018'
29                   '01APR2018'd - high = 'Actual date';
30
31  run;
32
33  title1 'Precipitation and Snowfall';
34  title2 'Note: Amounts shown in inches';
35  proc means data=pg2.np_weather maxdec=2 sum mean nonobs;
36      where Prcp > 0 or Snow > 0;
37      var Prcp Snow;
38      class Date Name;
39      format Date decade.;
40  run;
41  title;
```