```sas
1  /**************************************************************************/
2  /* Program Name: DSmith_HW08_prog.sas                                     */
3  /* Date Created: 2/26/2023                                                */
4  /* Author: Dustin Smith                                                   */
5  /* Purpose: To complete Homework 8 of stats 604. We will be working with basic */
6  /* input and output commands for SAS                                      */
7  /*                                                                        */
8  /* Inputs: Storm.xlsx file                                                */
9  /*         found at:/home/u63307645/STAT_604_Folder/STAT_604_Howework/Storm.xlsx  */
10 /*         LIbrary Cert in SAS wepage                                     */
11 /*         found at "/home/u63307645/my_shared_file_links/fkincheloe/stat604/cert" */
12 /* Outputs: DSmith_HW08_outputA.pdf                                       */
13 /*          DSmith_HW08_outputB.pdf                                       */
14 /*          Found here: /home/u63307645/STAT_604_Folder/STAT_604_Howework/  */
15 /* Things to refine: There seems to be some error at the end of the code  */
16 /*                                                                        */
17 /**************************************************************************/
18
19 /* 1) Housekeeping*/
20 title;
21 footnote;
22 ods noproctitle;
23
24 /*2) Open files and libraries to be used*/
25 libname libcert base "/home/u63307645/my_shared_file_links/fkincheloe/stat604/cert" access=readonly;
26 libname storm xlsx "/home/u63307645/STAT_604_Folder/STAT_604_Howework/Storm.xlsx" access=readonly;
27
28 filename fileone '/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW08_outputA.pdf';
29 filename filetwo '/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW08_outputB.pdf';
30
31 /*3) open files with the ods command*/
32 ods _all_ close;
33
34
35 ods pdf (fileone) file="/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW08_outputA.pdf"
36     style=harvest
37     bookmarklist=none;
38
39 ods pdf (filetwo) file="/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW08_outputB.pdf"
40     pdftoc=1
41     bookmarklist=show;
42
43 /*4-5) write a proc step to show all of the data sets in each library, close output A*/
44 title "Library Cert's data sets";
45 footnote "Downloaded from SAS Website";
46 ods proclabel "Library Cert's data sets";
47 proc contents data=libcert._all_ nods;
48 run;
49
50 title "Library Storm data sets";
51 footnote;
52 ods proclabel "Library Storm data sets";
53 proc contents data=storm._all_ nods;
54 run;
55
56 ods pdf (fileone) close;
57
58 /*6 list information from Storm_Summary, in order of creation*/
59
60 proc contents data=storm.storm_summary varnum;
61     title1 "Strom Summary Worksheet";
62     title2 "Descritpor Portion";
63     ods proclabel "Storm Summary - Metadata";
64 run;
65
66 /*7 List the data from Storm_Summary*/
67 title2;
68 ods proclabel "Storm Summary - Data";
69 proc print data=storm.storm_summary;
70     title3 "Data Portion";
71 run;
72
```

```sas
73  /*8 List the descriptor of the Bookcase portion of cert*/
74  title1 "Bookcase Data Set Information";
75  ods proclabel "Bookcase - Descriptor";
76  proc contents data=libcert.bookcase;
77  run;
78
79  /*9 List the data protion of the Bookcase file*/
80  ods pdf startpage=no;
81  ods proclabel "Bookcase - Data";
82  proc print data=libcert.bookcase;
83  run;
84
85  /*10 and 11 Delete things*/
86
87  libname storm clear;
88
89  ods pdf (filetwo) close;
90  ods html path="%qsysfunc(pathname(work))";
91
92  /*Questions*/
93  /*1 The last two items in the Table of Contents page are the Directory for the
94  Storm.xlsx page, and the table displaying the different sheets in the excel file.
95  The last two values on the table are Subbasin_codes and Type_codes
96
97
98  2 I believe that there are 8 tables in the excel file. Assuming that each sheet is also a table.
99
100
101
102  3 There are 19 observations, but the observation length is 32
103
104
105  4 I believe that there are two numeric variables in the bookcase data set
106  being "Item" and "Price"
107
108
109  5 I assumed that the Note was informing me that the SAS could not access the number of observations
110  in the excel file. So instead it counted the data as it read it into the proc print. The other notes
111  seemed to be about the process that occurred when the proc print ran.
112
       6  The Arlene storm started at 08Jun2005 and ended at 14Jun2005, with a max wind speed of 69 miles per hour*/
```