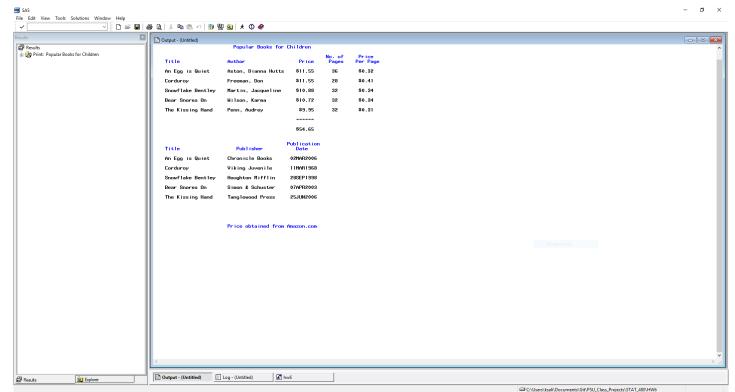


PROBLEM 1

Below is the output from my SAS code in text and an image format. \\

1	Popular Books for Children				
2				Nt £	D!
3	T:41-	A 41	D:	No. of	Price
4	Title	Author	Price	Pages	Per Page
5	An Egg is Quiet	Acton Dianna Hutta	¢11 EE	26	¢0.22
6 7	An Egg is Quiet	Aston, Dianna Hutts	\$11.55	36	\$0.32
8	Corduroy	Freeman, Don	\$11.55	28	\$0.41
9	Cordurby	riceman, Don	\$11.55	20	\$0.41
10	Snowflake Bentley	Martin, Jacqueline	\$10.88	32	\$0.34
11	onownake Bentiey	wartin, jacquenne	Ψ10.00	32	ψ0.01
12	Bear Snores On	Wilson, Karma	\$10.72	32	\$0.34
13		,	410	0_	+ - 10 1
14	The Kissing Hand	Penn, Audrey	\$9.95	32	\$0.31
15	5	, , , , , , , , , , , , , , , , , , ,			
16			=====		
17					
18			\$54.65		
19					
20					
21			Publication		
22	Title	Publisher	Date		
23					
24	An Egg is Quiet	Chronicle Books	02MAR2006		
25					
26	Corduroy	Viking Juvenile	11MAR1968		
27		10014			
28	Snowflake Bentley	Houghton Mifflin	28SEP1998		
29	D 0	0' 0 1 1	074 PR0000		
30	Bear Snores On	Simon & Schuster	07APR2003		
31	The Vissing Herd	Tanglaryand Dung-	25HHN2000		
32 33	The Kissing Hand	Tanglewood Press	25JUN2006		
34 35					
36					
37					
38	Price obtained from Amazon.com				
30	THE Obtained Hom Alliazon, com				



🔛 Output - (Untitled) Popular Books for Children No. of Price Title Author Price **Pages** Per Page Aston, Dianna Hutts \$0.32 An Egg is Quiet \$11.55 36 Corduroy Freeman, Don \$11.55 28 \$0.41 Snowflake Bentley Martin, Jacqueline \$10.88 32 \$0.34 Bear Snores On Wilson, Karma \$10.72 32 \$0.34 The Kissing Hand Penn, Audrey \$9.95 32 \$0.31 \$54.65 Publication Title Publisher Date 02MAR2006 Chronicle Books An Egg is Quiet Corduroy Viking Juvenile 11MAR1968 Snowflake Bentley Houghton Mifflin 28SEP1998 Bear Snores On Simon & Schuster 07APR2003 The Kissing Hand Tanglewood Press 25JUN2006 Price obtained from Amazon.com

SAS CODE

```
2 Kyle Salitrik
3 kps168
4 PSU ID: 997543474
5 Sept 14, 2018
7 This program covers Homework 6 for STAT 480.
10 LIBNAME STAT480 'C:\STAT480\';
11
12 /*** PART A ***/
13 DATA books;
14
     * Read data using formatted input from raw data file;
15
     INFILE 'C:\STAT480\kidsbooks.txt';
16
     INPUT
17
         @1 Title
                        $20.
18
        @22 Author
                        $19.
19
        @43 Publisher $16.
20
         @61 Pubdate
                      mmddyy10.
21
         @72 Price
                        5.2
22
         @79 Pages
                         2.
23
24
25
      /* Calculate price per page for each book */
26
      PricePerPage=Price/Pages;
27 RUN;
28
29 PROC SORT data=books out=sortedBooks;
30 by descending price;
31 RUN;
32
33 PROC PRINT data=sortedBooks SPLIT='/' DOUBLE;
     /* Limit output width to 80 and center output */
34
35
      OPTIONS LS=80 PS=38 NODATE NONUMBER;
36
      /* Set title for observations */
37
      id Title;
38
39
40
      /* Select values to print out */
      var Author Price Pages PricePerPage Publisher Pubdate;
41
      where pricePerPage > 0.30;
42
      sum Price;
43
44
45
      /* Set Labels and output formats */
46
      label
          Title = 'Title'
47
         Author = 'Author'
Price = 'Price'
48
49
          Pages = 'No. of/Pages'
50
          PricePerPage = 'Price/Per Page'
51
          Publisher = 'Publisher'
52
         Pubdate = 'Publication/Date';
53
54
      format
55
         Pubdate DATE9.
          Price DOLLAR6.2
56
57
          PricePerPage DOLLAR5.2;
      /* Set title and footnote */
      title 'Popular Books for Children';
61
      footnote 'Price obtained from Amazon.com';
62 RUN;
```

SAS LOG FILE

```
1 1
       /**********************************
2. 2.
       Kyle Salitrik
       kps168
3 3
4 4
       PSU ID: 997543474
5 5
       Sept 14, 2018
6 6
       This program covers Homework 6 for STAT 480.
8 8
       9 9
10 10 LIBNAME STAT480 'C:\STAT480\';
11 NOTE: Libref STAT480 was successfully assigned as follows:
        Engine: V9
12
13
        Physical Name: C:\STAT480
14 11
15 12
     /*** PART A ***/
16 13 DATA books;
17 14
           * Read data using formatted input from raw data file;
18 15
          INFILE 'C:\STAT480\kidsbooks.txt';
19 16
          INPUT
20 17
              @1 Title
                             $20.
21 18
              @22 Author
                             $19.
22 19
             @43 Publisher $16.
23 20
              @61 Pubdate mmddyy10.
24 21
              @72 Price
                              5.2
25 22
              @79 Pages
                              2.
26 23
27 24
28 25
           /* Calculate price per page for each book */
29 26
           PricePerPage=Price/Pages;
30 27
     RUN;
31
32 NOTE: The infile 'C:\STAT480\kidsbooks.txt' is:
33
        Filename=C:\STAT480\kidsbooks.txt,
        RECFM=V, LRECL=32767, File Size (bytes)=993,
34
        Last Modified=06Oct2018:14:17:42,
35
36
        Create Time=06Oct2018:14:12:58
37
38 NOTE: 23 records were read from the infile 'C:\STAT480\kidsbooks.txt'.
        The minimum record length was 0.
        The maximum record length was 80.
41 NOTE: SAS went to a new line when INPUT statement reached past the end of a line.
42 NOTE: The data set WORK.BOOKS has 12 observations and 7 variables.
43 NOTE: DATA statement used (Total process time):
      real time 0.03 seconds
44
45
        cpu time
                           0.03 seconds
46
47
48 28
      PROC SORT data=books out=sortedBooks;
49 29
50 30
       by descending price;
51 31
53 NOTE: There were 12 observations read from the data set WORK.BOOKS.
54 NOTE: The data set WORK.SORTEDBOOKS has 12 observations and 7 variables.
55 NOTE: PROCEDURE SORT used (Total process time):
        real time
                       0.01 seconds
56
57
        cpu time
                           0.01 seconds
58
60 32
61 33 PROC PRINT data=sortedBooks SPLIT='/' DOUBLE;
62 34
          /* Limit output width to 80 and center output */
           OPTIONS LS=80 PS=38 NODATE NONUMBER;
63 35
64 36
```

```
65 37
           /* Set title for observations */
66 38
            id Title;
67 39
68 40
            /* Select values to print out */
            var Author Price Pages PricePerPage Publisher Pubdate;
69 41
70 42
           where pricePerPage > 0.30;
71 43
           sum Price;
72 44
73 45
           /* Set Labels and output formats */
74 46
           label
               Title = 'Title'
75 47
76 48
               Author = 'Author'
               Price = 'Price'
77 49
78 50
               Pages = 'No. of/Pages'
79 51
               PricePerPage = 'Price/Per Page'
80 52
               Publisher = 'Publisher'
               Pubdate = 'Publication/Date';
81 53
82 54
          format
83 55
              Pubdate DATE9.
84 56
                Price DOLLAR6.2
85 57
               PricePerPage DOLLAR5.2;
86 58
87 59
            /* Set title and footnote */
88 60
            title 'Popular Books for Children';
89 61
            footnote 'Price obtained from Amazon.com';
90 62
      RUN;
91
92 NOTE: There were 5 observations read from the data set WORK.SORTEDBOOKS.
        WHERE pricePerPage > 0.3;
94 NOTE: PROCEDURE PRINT used (Total process time):
                         0.05 seconds
95
        real time
                           0.06 seconds
        cpu time
```