

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

1			Cala	s Data		
2			Sale	S Data		
				Δ		
3	01	Б.,	0.4	Avg		
4	Obs	Date	Store	Sales	Group	region
5		10/10/05	110	015.0		0 1
6	1	10/12/07	110	617.6	Average	South
7	2	10/12/07	111	670.8	Average	South
8	3	10/12/07	112	614.8	Average	North
9	4	10/12/07	113	655.8	Average	North
10	5	10/12/07	114	628.6	Average	North
11	6	17/12/07	110	748.8	Average	South
12	7	17/12/07	111	708.6	Average	South
13	8	17/12/07	112	792.6	High	North
14	9	17/12/07	113	745.2	Average	North
15	10	17/12/07	114		N/A	North
16	11	24/12/07	110	377.0	Low	South
17	12	24/12/07	111	775.2	High	South
18	13	24/12/07	112	598.8	Low	North
19	14	24/12/07	113	878.8	High	North
20	15	24/12/07	114	750.2	High	North
21	16	31/12/07	110	368.0	Low	South
22	17	31/12/07	111	562.6	Low	South
23	18	31/12/07	112	544.4	Low	North
24	19	31/12/07	113	639.8	Average	North
25	20	31/12/07	114	763.4	High	North
23	20	31/12/07	114	703.4	111511	1101111

## Sales Data

			Avg		
0bs	Date	Store	Sales	Group	region
1	10/12/07	110	617.6	Average	South
2	10/12/07	111	670.8	Average	South
3	10/12/07	112	614.8	Average	North
4	10/12/07	113	655.8	Average	North
5	10/12/07	114	628.6	Average	North
6	17/12/07	110	748.8	Average	South
7	17/12/07	111	708.6	Average	South
8	17/12/07	112	792.6	High	North
9	17/12/07	113	745.2	Average	North
10	17/12/07	114		N/A	North
11	24/12/07	110	377.0	Low	South
12	24/12/07	111	775.2	High	South
13	24/12/07	112	598.8	Low	North
14	24/12/07	113	878.8	High	North
15	24/12/07	114	750.2	High	North
16	31/12/07	110	368.0	Low	South
17	31/12/07	111	562.6	Low	South
18	31/12/07	112	544.4	Low	North
19	31/12/07	113	639.8	Average	North
20	31/12/07	114	763.4	High	North
	01/16/01			9	1101 611

## SAS CODE

```
2 Kyle Salitrik
3 kps168
4 PSU ID: 997543474
5 Oct 28, 2018
7 This program covers Homework 8 for STAT 480.
  10 DATA sales (DROP = Mon Tues Wed Thur Fri);
    INPUT
11
12
         @1 weekof ddmmyy8.
         @10 Store 3.
13
14
         @14 Mon 3.
15
         @18 Tues 3.
16
         @22 Wed 3.
17
         @26 Thur 3.
18
         @30 Fri 3.;
19
20
      * Calculate average sales;
21
     AvgSales = (Mon + Tues + Wed + Thur + Fri)/5;
22
23
      * Set length of new group variable;
24
      length Group $7;
25
26
      * Determine whether sales are low, avg, high, or missing.;
      if AvgSales = '.' then Group = 'N/A';
27
28
      else if AvgSales LE 605 then Group = 'Low';
      else if 605 LT AvgSales LE 750 then Group = 'Average';
29
30
      else if AvgSales GT 750 then Group = 'High';
31
      * Set region based on store number;
32
33
      if (110 LE Store LE 111) then region = 'South';
      else if 112 LE Store LE 114 then region = 'North';
34
35
36
     DATALINES;
37 10/12/07 110 412 532 641 701 802
38 10/12/07 111 478 567 699 789 821
39 10/12/07 112 399 501 650 712 812
40 10/12/07 113 421 532 698 756 872
41 10/12/07 114 401 510 612 721 899
42 17/12/07 110 710 725 789 721 799
43 17/12/07 111 689 701 729 703 721
44 17/12/07 112 899 812 802 738 712
45 17/12/07 113 700 712 748 765 801
46 17/12/07 114 699 799 899 608 .
47 24/12/07 110 340 333 321 401 490
48 24/12/07 111 801 793 721 763 798
49 24/12/07 112 598 798 684 502 412
50 24/12/07 113 980 921 832 812 849
51 24/12/07 114 798 709 721 799 724
52 31/12/07 110 487 321 399 312 321
53 31/12/07 111 501 532 598 581 601
54 31/12/07 112 598 512 540 523 549
55 31/12/07 113 601 625 674 698 601
56 31/12/07 114 900 805 700 601 811
58 RUN;
60 PROC PRINT data = sales label;
* Set page size to 50, line size to 80, and suppress date and number output;
62
     OPTIONS PS = 58 LS = 80 NODATE NONUMBER;
63
* Set output title;
```

```
title "Sales Data";

keep to be seen to be s
```

## SAS LOG FILE

```
1 1
        /********************
2 2
       Kyle Salitrik
3 3
       kps168
4 4
       PSU ID: 997543474
5 5
       Oct 28, 2018
 6 6
 7 7
       This program covers Homework 8 for STAT 480.
8 8
9 9
10 10
      DATA sales (DROP = Mon Tues Wed Thur Fri);
11 11
           INPUT
12 12
               @1 weekof ddmmyy8.
13 13
               @10 Store 3.
               @14 Mon 3.
14 14
15 15
               @18 Tues 3.
               @22 Wed 3.
16 16
17 17
               @26 Thur 3.
18 18
               @30 Fri 3.;
19 19
20 20
           * Calculate average sales;
21 21
           AvgSales = (Mon + Tues + Wed + Thur + Fri)/5;
22 22
23 23
            * Set length of new group variable;
24 24
           length Group $7;
25 25
26 26
            * Determine whether sales are low, avg, high, or missing.;
27 27
           if AvgSales = '.' then Group = 'N/A';
           else if AvgSales LE 605 then Group = 'Low';
28 28
29 29
           else if 605 LT AvgSales LE 750 then Group = 'Average';
30 30
           else if AvgSales GT 750 then Group = 'High';
31 31
32 32
            * Set region based on store number;
           if (110 LE Store LE 111) then region = 'South';
33 33
           else if 112 LE Store LE 114 then region = 'North';
34 34
35 35
36 36
           DATALINES;
38 NOTE: Character values have been converted to numeric values at the places given by:
       (Line):(Column).
39
        27:19
40 NOTE: Missing values were generated as a result of performing an operation on missing
        Each place is given by: (Number of times) at (Line):(Column).
41
         1 at 21:41
43 NOTE: The data set WORK. SALES has 20 observations and 5 variables.
44 NOTE: DATA statement used (Total process time):
                           0.04 seconds
        real time
45
                            0.03 seconds
46
        cpu time
47
48
49 57
50 58
      RUN;
51 59
      PROC PRINT data = sales label;
52 60
53 61 * Set page size to 50, line size to 80, and suppress date and number output;
```

```
54 62 OPTIONS PS = 58 LS = 80 NODATE NONUMBER;
55 63
        * Set output title;
title "Sales Data";
56 64
            title "Sales Data";
57 65
58 66
59 67
            *Set label and format of week output.;
            label weekof = 'Date';
60 68
       format weekof ddmmyy8.;
61 69
62 70 RUN;
63
64 NOTE: There were 20 observations read from the data set WORK.SALES.
65 NOTE: PROCEDURE PRINT used (Total process time):
        real time 0.03 seconds cpu time 0.03 seconds
```