SAS EXERCISE ON PROC REPORT

```
data mnthly_sales;
 length zip $ 5 cty $ 8 var $ 10;
input zip $ cty $ var $ sales;
label zip="Zip Code" cty="County" var="Variety" sales="Monthly Sales";
datalines;
52423 Scott Merlot 186.00
52423 Scott Merlot 145.00
52423 Scott Chardonnay 178.06
 52388 Scott Chardonnay 35.09
52423 Scott Zinfandel 56.09
52388 Scott Zinfandel 58.00
 52423 Scott Merlot 45
52200 Adams Merlot 88
52388 Scott Merlot 88
52200 Adams Chardonnay 78
52388 Scott Chardonnay 166
52200 Adams Zinfandel 56
52388 Scott Zinfandel 45.0
52200 Adams Chardonnay 77.01
52200 Adams Merlot 50
52199 Adams Merlot 49
52200 Adams Chardonnay 55
52199 Adams Chardonnay 56
52200 Adams Zinfandel 78
52199 Adams Zinfandel 79
52200 Adams Chardonnay 90
52199 Adams Merlot 34
52199 Adams Chardonnay 119
```

SAS EXERCISE ON PROC REPORT

52199 Adams Zinfandel 200

;

proc print data=mnthly_sales;

title "Raw Data";

run;

Q1.)

CREATE A REPORT USING THE ABOVE DATASET HAVING THE FOLLOWING DATA

title1 "Simple Report";

SELECT THE GIVEN VARIABLES cty zip var sales AND DISPLAY THEM

Q2.) USE THE SAME DATA AND CREATE THE REPORT

title1 "Simple Report";

SELECT THE GIVEN VARIABLES cty zip var sales AND DISPLAY THEM

RENAME CTY AS ‘County/Name’ AND SORT THE DATA;

FORMAT SALES TO DECIMAL PLACES

I REQUIRE A LINE DIVIDING THE VARIABLES FROM THE OBSERVATIONS

Q3.) USE THE DATA FROM Q1

SELECT THE GIVEN VARIABLES cty zip var sales AND DISPLAY THEM

title1 "Grouped Report (Group Type)";

GROUP COUNTRY ZIP VAR

ORDER THE ROWS WITHIN THE GROUP FOR VAR BY DESCENDING

Q4) USE THE DATA FROM Q1

SAS EXERCISE ON PROC REPORT

THE GIVEN VARIABLES cty zip var sales AND DISPLAY THEM

SALES CALCULATE MEAN SUM

Answers :

```
data mnthly_sales;
length zip $ 5 cty $ 8 var $ 10;
input zip $ cty $ var $ sales;
label zip="Zip Code" cty="County"  var="Variety" sales="Monthly
Sales";
datalines;
52423 Scott Merlot 186.00
52423 Scott Merlot  145.00
52423 Scott Chardonnay 178.06
52388 Scott Chardonnay 35.09
52423 Scott Zinfandel 56.09
52388 Scott Zinfandel 58.00
52423 Scott Merlot  45
52200 Adams Merlot 88
52388 Scott Merlot 88
```

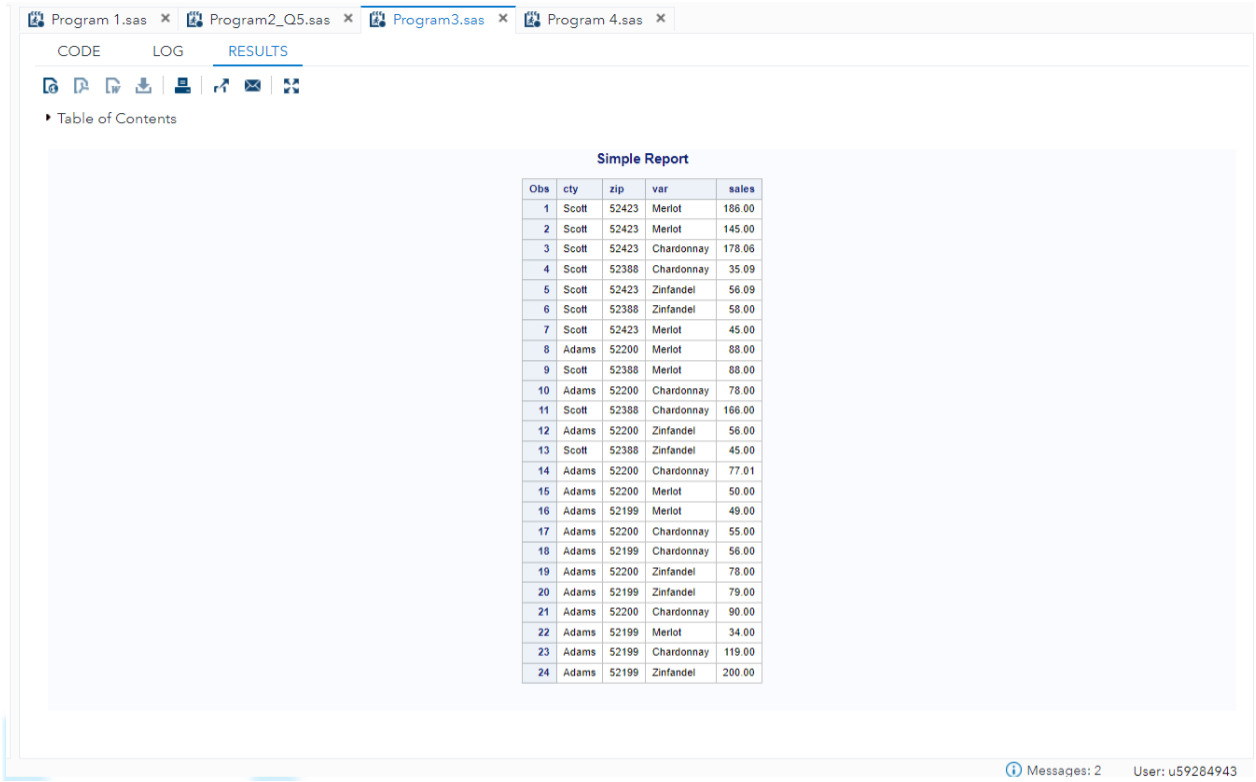
```
52200 Adams Chardonnay 78
52388 Scott Chardonnay 166
52200 Adams Zinfandel  56
52388 Scott Zinfandel 45.0
52200 Adams Chardonnay 77.01
52200 Adams Merlot 50
52199 Adams Merlot 49
52200 Adams Chardonnay 55
52199 Adams Chardonnay 56
52200 Adams Zinfandel 78
52199 Adams Zinfandel 79
52200 Adams Chardonnay 90
52199 Adams Merlot 34
52199 Adams Chardonnay 119
52199 Adams Zinfandel 200
;

proc print data=mnthly_sales;
title "Raw Data";
run;
```

Q1

Code:

```
/* Report 1: Simple Report */
proc print data=mnthly_sales;
 title "Simple Report";
 var cty zip var sales;
run;
```

Output:



Obs	cty	zip	var	sales
1	Scott	52423	Merlot	186.00
2	Scott	52423	Merlot	145.00
3	Scott	52423	Chardonnay	178.06
4	Scott	52388	Chardonnay	35.09
5	Scott	52423	Zinfandel	56.09
6	Scott	52388	Zinfandel	58.00
7	Scott	52423	Merlot	45.00
8	Adams	52200	Merlot	88.00
9	Scott	52388	Merlot	88.00
10	Adams	52200	Chardonnay	78.00
11	Scott	52388	Chardonnay	166.00
12	Adams	52200	Zinfandel	56.00
13	Scott	52388	Zinfandel	45.00
14	Adams	52200	Chardonnay	77.01
15	Adams	52200	Merlot	50.00
16	Adams	52199	Merlot	49.00
17	Adams	52200	Chardonnay	55.00
18	Adams	52199	Chardonnay	56.00
19	Adams	52200	Zinfandel	78.00
20	Adams	52199	Zinfandel	79.00
21	Adams	52200	Chardonnay	90.00
22	Adams	52199	Merlot	34.00
23	Adams	52199	Chardonnay	119.00
24	Adams	52199	Zinfandel	200.00

Q2

Code:

```
/* Type1 */
proc sql;
create table mnthly_sales2 as
select cty ,zip ,var ,sales from
mnthly_sales; quit;

proc sql;
create table mnthly_sales3 as
select cty as "County/Name"n ,zip ,var ,sales from
mnthly_sales2;
quit;

/* By what variables to sort not clearly mentioned,
hence sorting by all given variables */
proc sort data=mnthly_sales3 out=mnthly_sales4;
```

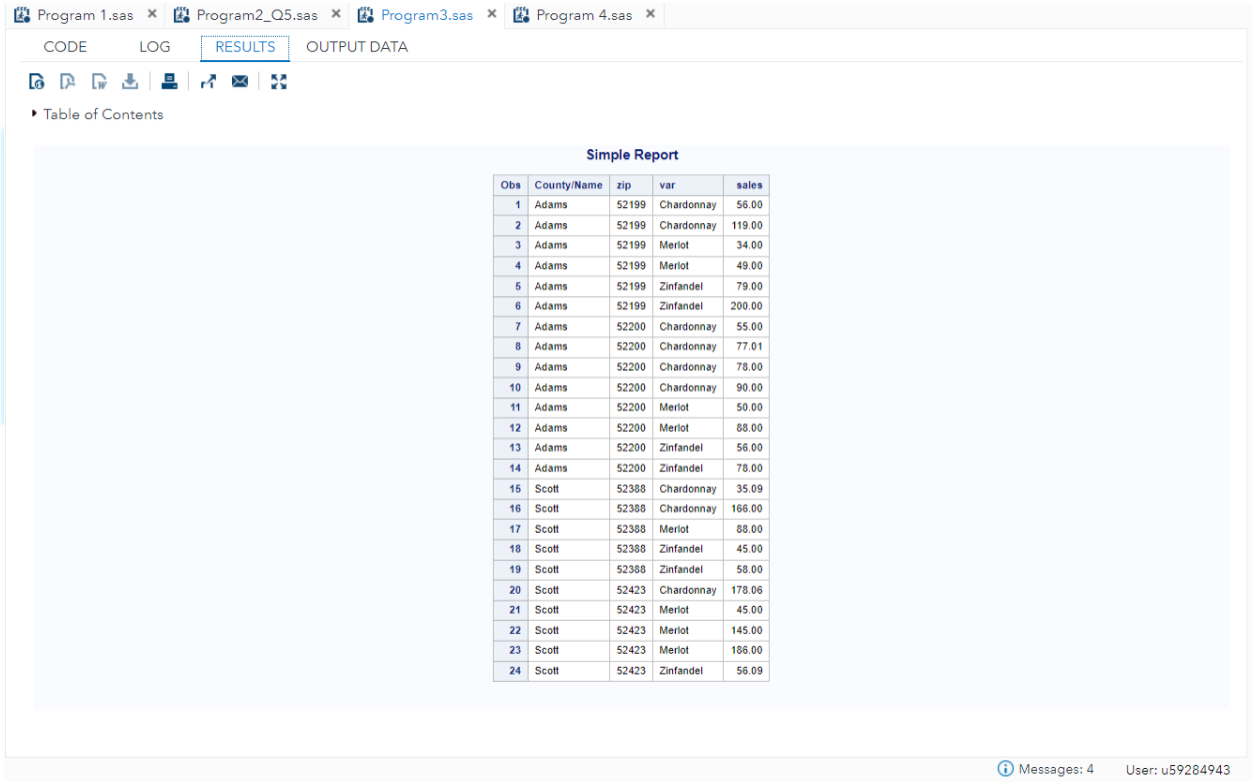
```
by "County/Name"n zip var sales;
run;

proc report data=mnthly_sales4;
 title "Simple Report";
 format sales 8.2; /* Format sales to two decimal
places run;
```

I REQUIRE A LINE DIVIDING THE VARIABLES FROM THE OBSERVATIONS
------ Not able to understand this question. Hence, could not

execute----------

```
/*                                    */
```

Output:



Simple Report

Obs	County/Name	zip	var	sales
1	Adams	52199	Chardonnay	56.00
2	Adams	52199	Chardonnay	119.00
3	Adams	52199	Merlot	34.00
4	Adams	52199	Merlot	49.00
5	Adams	52199	Zinfandel	79.00
6	Adams	52199	Zinfandel	200.00
7	Adams	52200	Chardonnay	55.00
8	Adams	52200	Chardonnay	77.01
9	Adams	52200	Chardonnay	78.00
10	Adams	52200	Chardonnay	90.00
11	Adams	52200	Merlot	50.00
12	Adams	52200	Merlot	88.00
13	Adams	52200	Zinfandel	56.00
14	Adams	52200	Zinfandel	78.00
15	Scott	52388	Chardonnay	35.09
16	Scott	52388	Chardonnay	166.00
17	Scott	52388	Merlot	88.00
18	Scott	52388	Zinfandel	45.00
19	Scott	52388	Zinfandel	58.00
20	Scott	52423	Chardonnay	178.06
21	Scott	52423	Merlot	45.00
22	Scott	52423	Merlot	145.00
23	Scott	52423	Merlot	186.00
24	Scott	52423	Zinfandel	56.09

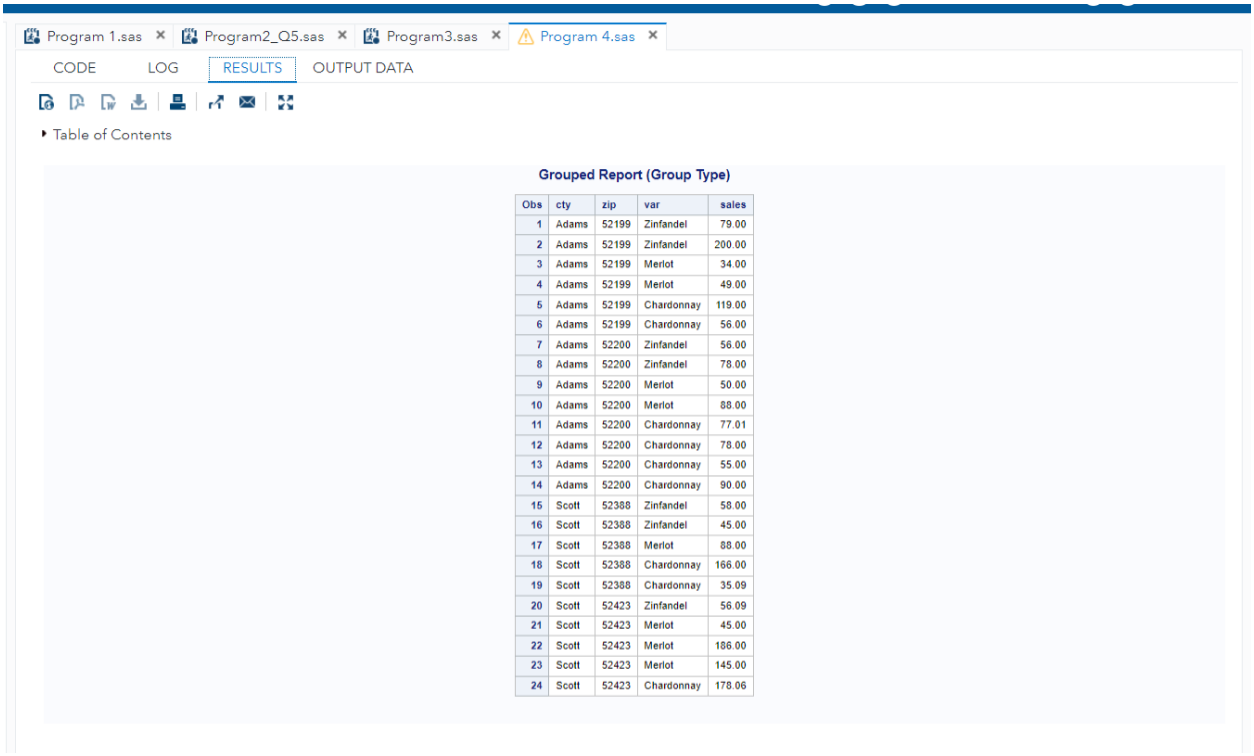
Q3

Not able to understand this question, hence solved using 2 ways ->

Code:

```
Type 1 ---  Cty Zip Var is grouped and Var is in descending


proc sql;
   create table want as
       select cty ,zip ,var ,sales
       from mnthly_sales
       group by cty ,zip , var ;
quit;

proc sort data=want out=want1;
by cty zip descending var;
run;

proc report data=want1;
 title "Grouped Report (Group Type)";
run;

                                                                    */
```

Output:



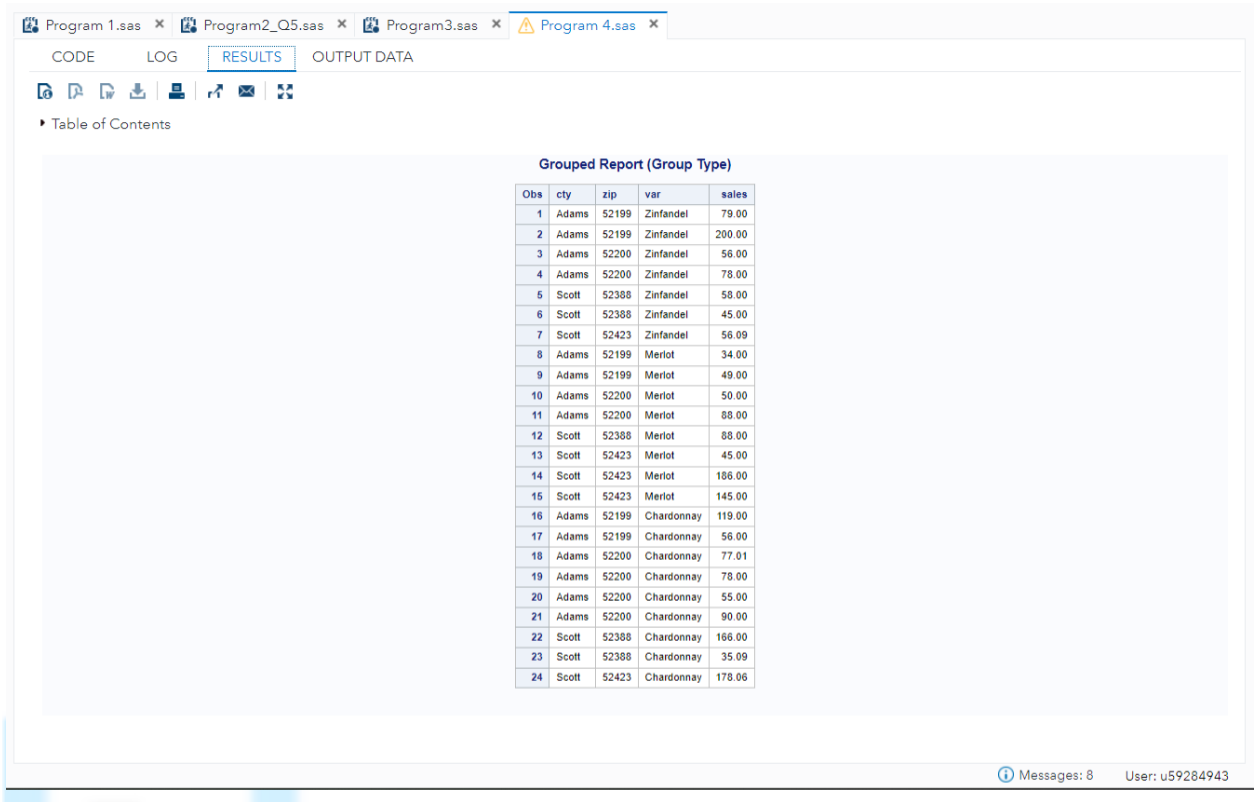
Obs	cty	zip	var	sales
1	Adams	52199	Zinfandel	79.00
2	Adams	52199	Zinfandel	200.00
3	Adams	52199	Merlot	34.00
4	Adams	52199	Merlot	49.00
5	Adams	52199	Chardonnay	119.00
6	Adams	52199	Chardonnay	56.00
7	Adams	52200	Zinfandel	56.00
8	Adams	52200	Zinfandel	78.00
9	Adams	52200	Merlot	50.00
10	Adams	52200	Merlot	88.00
11	Adams	52200	Chardonnay	77.01
12	Adams	52200	Chardonnay	78.00
13	Adams	52200	Chardonnay	55.00
14	Adams	52200	Chardonnay	90.00
15	Scott	52388	Zinfandel	58.00
16	Scott	52388	Zinfandel	45.00
17	Scott	52388	Merlot	88.00
18	Scott	52388	Chardonnay	166.00
19	Scott	52388	Chardonnay	35.09
20	Scott	52423	Zinfandel	56.09
21	Scott	52423	Merlot	45.00
22	Scott	52423	Merlot	186.00
23	Scott	52423	Merlot	145.00
24	Scott	52423	Chardonnay	178.06

Type 2 - Var is in descending order while Cty, Zip, Var are grouped

Code:

```
proc sql;
   create table want as
       select cty ,zip ,var ,sales
       from mnthly_sales
       group by cty ,zip , var ;
quit;

proc sort data=want out=want1;
by descending var;
run;

proc report data=want1;
 title "Grouped Report (Group
Type)"; run;
```

Output:

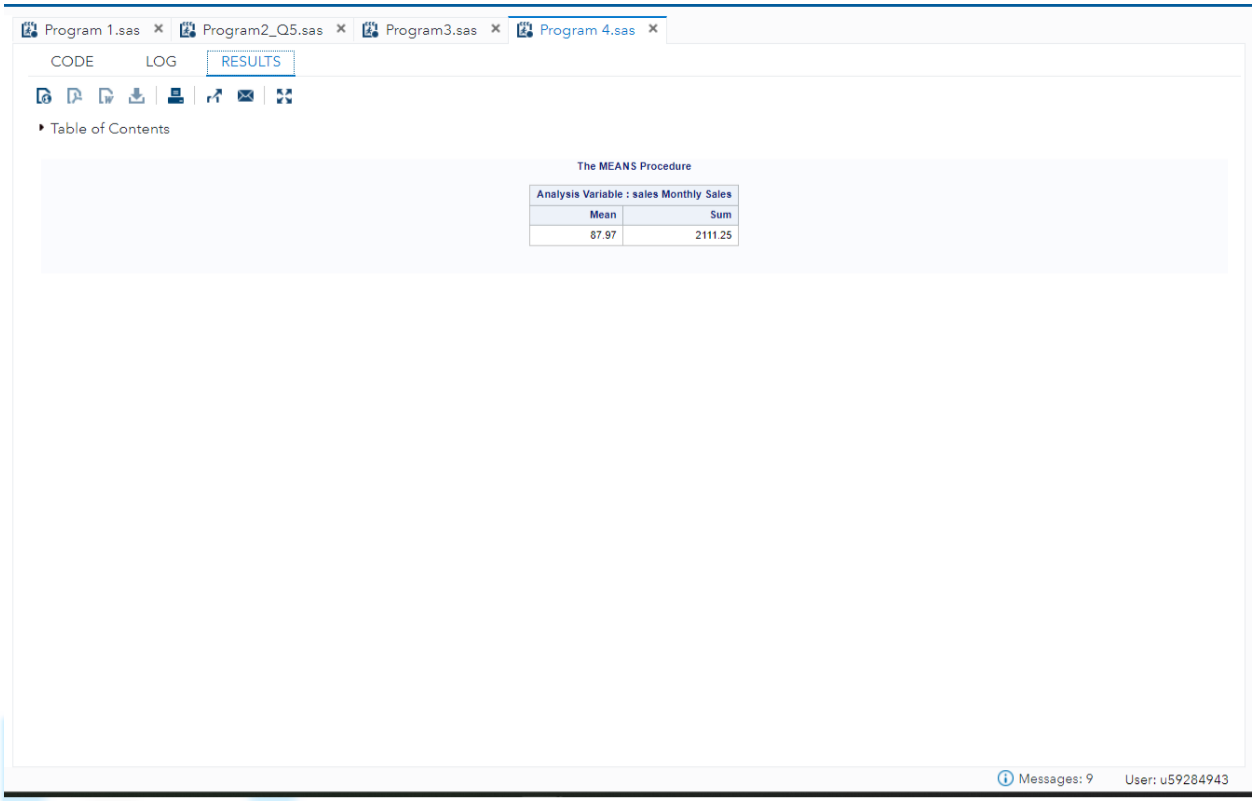


Q4

Code:

```
PROC MEANS DATA = mnthly_sales Mean SUM MAXDEC=2;
var sales;
RUN;
```

Output:


Program 1.sas
Program2_Q5.sas
Program3.sas
Program 4.sas
CODE
LOG
RESULTS
Table of Contents
The MEANS Procedure
Analysis Variable : sales Monthly Sales
Mean
Sum
87.97
2111.25
Messages: 9
User: u59284943