SAS Problem Session 2

Scenario 1

Directions

This scenario uses the PS_Data.Addresses data set. Write a SAS program to do the following:

- Create a temporary SAS data set that uses PS_Data.Addresses and store the results in Work.Scenario1.
- Extract the 5-digit ZIP codes from the State variable and store them in the ZipCode variable.
- Extract the two letters from the State variable and store them in the State variable.
- Extract just the number from the address in the Street variable and store it in the Just_Number variable. For this, assume that in the future, you might get new data where the number part of the address might not always be four characters.
- Create a new variable called Indicator that has a value of 1 if the word "Drive" was found in the Street variable, or 0 if it wasn't found.
- Create a one-way frequency table using the variable State.

Test Your Code

1. How many Street names contain the word "Drive"?

2. What is the frequency for the state of NY?

3. Which observation contains ZipCode 85069? Give the street name.

4. How many states have the frequency number of 4?

Scenario 2

Directions

Open the PS_5 program and correct the errors in the program below.

Example Code 2 PS_5 Program: Fix the Errors

```
work.mycars;
   set sashelp.cars;
   AvgMPG=mean(mpg_city, mpg_highway);
run;
title 'Cars With Average MPG Over 40';
proc print data=work.mycars
   var make model type avgmpg;
   where AvgMPG>40;
run;
title 'Average MPG by Car Type';
proc means data=work.mycars avg min max maxdec=1;
      var avgmpg;
      class type;
```

```
run;
title;
```

Test Your Code

1. What is the number of observations where the variable Type is Sedan?

2. How many observations are printed to the report titled, “Cars With Average MPG Over 40”?