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/* Code to read Sashelp.class table */
data myclass;
   set sashelp.class;
/* Code print Myclass table */
proc print data=myclass;
run;
/st there are 2 steps in sas programs
   1. Data step:
     - reads data from input source
      - processes it
      - create a SAS table
      - filter rows
      - compute new columns
      - join tables
      - perform other data manipulation
   2. Proc step: "procedure step processes"
      - generate reportd and graph
      - manage data
      - perform complex statistical analyses
  steps end run a few proc steps end with a quit statement
/* create new column */
data myclass;
    set sashelp.class;
   heightcm=height*2.54;
run:
/* print table */
proc print data=myclass;
/* print means of the age and heightcm */
proc means data=myclass;
   var age heightcm;
run;
/* * Access Data *; */
options validvarname=v7; /* Ensures column names follow SAS naming rules */
                       /* Enables graphics for future analysis */
ods graphics on;
libname pg1 base "/home/u64168505/EPG1V2/data";/* Defines a library (pg1) to manage SAS datasets */
proc import datafile="/home/u64168505/EPG1V2/data/storm.xlsx"
            dbms=xlsx out=storm damage replace; /* replace --> Overwrites any existing dataset with the same name */
    sheet="Storm_Damage"; /* Imports data from the "Storm_Damage" sheet in
                               storm.xlsx into a SAS dataset (storm_damage) */
/* * Explore Data *; */
title "Explore Basin and Status Codes"; *Sets a title for the output*;
proc freq data=pg1.storm summary; *Runs the PROC FREQ procedure, which calculates frequency counts for categorical variables
   tables basin type; *helps in understanding the distribution of storm types across different basins*;
title "Summary Statistics for Maximum Wind(MPH) and Minimum Pressure";
proc means data=pg1.storm_summary; *proc means: Computes descriptive statistics (mean, min, max, standard deviation, etc.).*;
   var MaxWindMPH MinPressure; *means for MaxWindMPH MinPressure *;
title "First 5 Rows from Imported Storm Damage";
proc print data=storm_damage(obs=5); *proc print: Displays data in tabular format
                                      Displays only the first 5 rows (obs=5) from the storm_damage dataset*;
run:
/********************************/
data mycars;
    set sashelp.cars;
    *Computes the average miles per gallon (MPG) using the city and highway values*;
```

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AvgMPG=mean(mpg_city, mpg_highway); *the mean() function ensures missing values are handled correctly*;
run;
title "Cars with Average MPG Over 35";
proc print data=mycars;
   var make model type avgmpg; *Displays only specific columns: make, model, type, and AvgMPG*;
                                *where AvgMPG > 35*;
   where AvgMPG > 35;
run;
title "Average MPG by Car Type";
/*Computes summary statistics:
mean: Average MPG for each car type.
min: Minimum MPG.
max: Maximum MPG.
maxdec=1: Rounds output to 1 decimal place.
proc means data=mycars mean min max maxdec=1;
   var avgmpg; *Specifies AvgMPG as the variable to analyze*;
    class type; *Groups data by type*;
RUN;
TITLE;/*Resets the title to remove any previous headings from the output*/
```

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