11/1/24, 10:15 PM Code: Cars.sas

```
libname SASDATA '/home/u63657920/DSAN 685/Data';
proc import datafile='/home/u63657920/DSAN 685/Data/Cars.csv'
            out=SASDATA.cars_df
            dbms= csv replace;
            getnames=yes;
            datarow=2;
run;
data SASDATA.cars df2;
     set SASDATA.cars df;
MSRP 1000 = input(MSRP, dollar12.3);
Invoice_1000 = input(Invoice, dollar12.3);
run;
proc contents data=SASDATA.cars_df2;
proc print data=SASDATA.cars_df2;
run;
proc sgscatter data= SASDATA.cars_df2;
            title "Scatterplot Matix for Cars Data";
            matrix MSRP_1000 Invoice_1000 Horsepower MPG_City MPG_Highway/group = Make
            diagonal= (histogram kernel)
            ellipse=(type=mean);
run;
title;
proc princomp data=sasdata.cars df2;
             var MSRP 1000 Invoice 1000 Horsepower MPG City MPG Highway;
run;
/*Create the diagnostics graph for the fit of Gas Mileage
explained by Enginesize, Wheelbase, and Horsepower*/
proc reg data=sasdata.cars df2;
         model MPG City = EngineSize Wheelbase Horsepower;
         title 'Multivariate Regression Model';
run;
/*Create the 95% confidence band and 95% prediction band for the fit of Gas Mileage
explained by the Enginesize*/
proc reg data=sasdata.cars df2;
         model MPG City = EngineSize/alpha=0.05;
         output out=sasdata.pred
         predicted=p;
run;
```

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