```
proc import
     datafile='/home/nabhankazi0/cars.xlsx'
     out=carsdata
     dbms=xlsx
     replace;
     getnames=yes;
proc print data=carsdata (obs=10);



proc sgplot data=carsdata;
     vbox price / category= status;
proc anova data=carsdata;
     class status;
     model price=status;
     means status / tukey;


data usedcars;
     set carsdata;
     if status= 'Used';
proc print data=usedcars (obs=10);


data newcars;
     set carsdata;
     if status= 'New';
proc print data=newcars (obs=10);



*usedcars;
proc sgplot data=usedcars;
     vbox price / category= colour;



proc sgplot data=usedcars;
     vbox price / category= bodytype;


proc sgplot data=usedcars;
     vbox price / category= transmission;
```

```
proc sgplot data=usedcars;
      vbox price / category= carproof;


proc sgplot data=usedcars;
      vbox price / category= make;

proc sgplot data=usedcars;
      vbox price / category= fuel;

proc sgplot data=usedcars;
      vbox price / category= location;

proc sgplot data=usedcars;
      vbox price / category= cylinders;

proc sgplot data=usedcars;
      scatter x=km y=price / jitter;
      reg x=km y=price / jitter;
proc corr data=usedcars;
      var km price;

proc sgplot data=usedcars;
      scatter x=year y=price / jitter;
      reg x=year y=price / jitter;
proc corr data=usedcars;
      var year price;




*newcars;
proc sgplot data=newcars;
      vbox price / category= colour;


proc sgplot data=newcars;
      vbox price / category= bodytype;


proc sgplot data=newcars;
      vbox price / category= transmission;


proc sgplot data=newcars;
```

```
      vbox price / category= make;

proc sgplot data=newcars;
      vbox price / category= cylinders;

proc sgplot data=newcars;
      vbox price / category= fuel;

proc sgplot data=newcars;
      vbox price / category= location;



*regression models;

proc glm data=usedcars;
      class transmission location make bodytype colour carproof fuel;
      model price= transmission location make bodytype colour carproof
fuel km year cylinders;

proc glm data=usedcars;
      class transmission  make bodytype colour carproof fuel;
      model price= transmission make bodytype colour carproof fuel km
year cylinders;

proc glm data=usedcars;
      class transmission  make bodytype carproof fuel;
      model price= transmission make bodytype carproof fuel km year
cylinders;

proc glm data=usedcars;
      class make bodytype carproof fuel;
      model price= make bodytype carproof fuel km year cylinders;

proc glm data=usedcars;
      class make bodytype fuel;
      model price= make bodytype fuel km year cylinders;

proc glm data=usedcars;
      class make bodytype;
      model price= make bodytype km year cylinders;
```

```
proc glm data=newcars;
      class transmission location make bodytype colour fuel;
      model price= transmission location make bodytype colour fuel
cylinders;

proc glm data=newcars;
      class transmission location make bodytype fuel;
      model price= transmission location make bodytype fuel cylinders;

proc glm data=newcars;
      class location make bodytype fuel;
      model price= location make bodytype fuel cylinders;

proc glm data=newcars;
      class make bodytype fuel;
      model price= make bodytype fuel cylinders;
```