**Multivariable regression:**

install.packages(“faraway”)

###Read the pima dataset using:

library(faraway)

data(pima)

pima<-data.frame(pima)

**Data description**

The National Institute of Diabetes and Digestive and Kidney Diseases

conducted a study on 768 adult female Pima Indians living near Phoenix. The following variables were

recorded: Number of times pregnant, Plasma glucose concentration a 2 hours in an oral glucose tolerance

test, Diastolic blood pressure (mm Hg), Triceps skin fold thickness (mm), 2-Hour serum insulin (mu U/ml),

Body mass index (weight in kg/(height in *m*2)), Diabetes pedigree function, Age (years) and a test whether

the patient shows signs of diabetes (coded 0 if negative, 1 if positive).

**Questions**

1. Fit the most parsimonious multiple regression explaining diastolic pressure (Remember the model may contain interactions)
2. Perform diagnostics on the best fitting model.
3. Interpret the coefficients where possible.

**Note**:

Can use similar codes as in SBP\_code.R script for model building process!!