Assignment2_210034046

```
knitr::opts_chunk$set(echo = TRUE)
#importing baldy.csv data
PROC import out= Najmi050.baldy
dbms=csv replace
file="/home/u59691081/sasuser.v94/SasFolder/New Folder3/Baldy.csv";
getnames=yes;
datarow=2;
run;
DATA najmi050.baldy_mm;
SET najmi050.baldy;
Luxuriant=luxuriant*25.4;
placebo=placebo*25.4;
baldbegone=baldbegone*25.4;
skinheadnomore=skinheadnomore*25.4;
RUN;
#checking contents
proc contents data=najmi050.baldy_mm;
run;
#checking numeric variable
proc univariate data=najmi050.baldy_mm;
run;


data najmi050.LuxuriantVsPlacebo;
set najmi050.baldy_mm;
keep luxuriant placebo;
run;

proc transpose data=najmi050.luxuriantvsplacebo out=temp;
by rows:;
var luxuriant placebo;
run;
proc transpose data=temp out=want;
   by _name_;
   var col:;
run;
proc print data=want;
run;
data najmi050.LuxuriantVsPlacebo;
set work.want;
rename _name_=LUXorPlacebo col1=growth_mm;
run;
proc print data=najmi050.LuxuriantVsPlacebo;
run;
```

```
proc ttest alpha=0.05 data=najmi050.luxuriantvsplacebo sided=2;
class LUXorPlacebo;
var growth_mm;
run;
#Assumption that data is normal, doesn't satisfy.
#To this end, we use non-parametric tests.
proc npar1way data=najmi050.luxuriantvsplacebo wilcoxon;
title "non-parametric test for Luxuriant vs Placebo";
class luxorplacebo;
var growth_mm;
exact wilcoxon;
run;


#pvalue <0.0001 which is lower than the 0.05 significance level.
#Therefore, we conclude that the placebo and luxuriant have significantly different growth rates.
```

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Including Plots

You can also embed plots, for example:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.