3/16/2019 Code: Tutorial 6 Q2.sas

```
* KHOONG WEI HAO ST2137 Tutorial 6 T03;
* We will use the Wilcoxon rank sum test to determine if there is a difference between the processing
times of the two plants.;
proc format;
    value $plant "1" = "Plant 1" "2" = "Plant 2";
data t6q2;
   infile "~/data/wip.txt" firstobs=2;
    input time plant $;
    label time = "WIP Time";
    format plant $plant.;
run;
proc npar1way data=t6q2 wilcoxon;
    title "Tutorial 6 Question 2 Wilcoxon rank sum test";
    class plant;
   var time;
    exact wilcoxon;
run;
* Ans: We are testing H_0: mu_1 - mu_2 = 0 against H_1: mu_1 - mu_2 ^= 0. From the Wilcoxon rank sum test, the
p-value = 0.0822. Thus we do not reject H_0.;
```