Appendix B- Script used to run the PSA

VOIS_C: 1 This variable represents whether a student is part of the EXP II group or not. It takes a value of 1 if the student is in the EXP II treatment group and 0 if the student is part of the control group.

TREATMENT: It takes a value of 1 if the student is in the treatment group and 0 if not.

VOIS_P: This variable represents whether a student is part of the EXP I group. It takes a value of 1 if the student is in the EXP I group and 0 otherwise.

CHEMISTRY: This variable represents the grades obtained by students in the general chemistry course during the first semester. It likely takes numeric values indicating students' performance or achievement level in this course.

RANKING

HSGRADES

NUST_LAN

NUST_MATH

NUST_SCI

FEMALE

```
Tab TREATMENT

pbalchk TREATMENT RANKING HSGRADES NUST_LAN NUST_MATH NUST_SCI
FEMALE

logit TREATMENT RANKING HSGRADES NUST_LAN NUST_MATH NUST_SCI
FEMALE

predict phat

sum phat if TREATMENT ==1

sum phat if TREATMENT ==0

drop if phat < .0157797      # 1 observations deleted (

drop if phat> .3045924      # 2 observations deleted

gen cheweight if TREATMENT =1   # 1,229 missing value generated

replace cheweight =phat/(1-phat) if TREATMENT ==0

sum cheweight    # check wight value Min=0.0169 MAX =1

pbalchk TREATMENT RANKING HSGRADES NUST_LAN NUST_MATH NUST_SCI
FEMALE, wt(cheweight)
```

reg CHEMISTRY TREATMENT [pw= cheweight]