#PB Set 2

data=read.csv("~/Desktop/Econ172\_S19\_ProblemSet2\_data.csv")

library(stargazer)

library(dplyr)

######b######

summary(data$eligible)

baseline\_data = filter(data,time==0)

summary\_stats = summary(baseline\_data)

summary\_stats

###Average differences between households eligible and ineligible for treatment###

##Gender differences

reg1= lm(female ~ eligible, baseline\_data)

reg1

summary(reg1) #coeff = -0.048 , SE = 0.028, t-value = -1.735

##Age differences

reg2= lm(age25 ~ eligible, baseline\_data)

reg2

summary(reg2) #coeff = -0.126, SE = 0.0190 , t-value = -6.634 (\*\*\*)

##Education differences

reg3= lm(schooling ~ eligible, baseline\_data)

reg3

summary(reg3) #coeff = 0.062 , SE = 0.0304, t-value = 2.041 (\*)

##Result Outputs

stargazer(baseline\_data,

out="Table 1.html",type="html",header=FALSE,

titles="Baseline Summary Statistics",align=TRUE,no.space=TRUE,stats = c("mean", "sd", "min", "med", "max", "n.valid"))

stargazer(reg1,reg2,reg3,

out="Table 2.html", type="html",header=FALSE,

title="Baseline Covariate Results",align=TRUE, omit.stat=c("LL","ser","f","rsq","adj.rsq"),no.space=TRUE)

######c######

##Regression of health on eligbility, female, age25 and shcooling for the baseline data

reg4 = lm(health ~ eligible + female + age25 + schooling, baseline\_data)

reg4

summary(reg4)

##Regression of health on eligbility, female, age25 and shcooling for the endline data

endline\_data = filter(data,time==1)

reg5 = lm(health ~ eligible + female + age25 + schooling, endline\_data)

reg5

summary(reg5)

##Result Outputs

stargazer(reg4,reg5,

out="Table 3.html", type="html",header=FALSE,

title="Baseline and Endline Regressions of Health Outcomes",align=TRUE, omit.stat=c("LL","ser","f","rsq","adj.rsq"),no.space=TRUE)

######d######

#Creation of the interaction variable "treat" and inclusion in data

data = mutate(data, treat = data$eligible\*data$time)

##DD regression of health on eligbility, time, the intereaction term, and controls

reg6 = lm(health ~ eligible + time + treat + female + age25 + schooling, data)

reg6

summary(reg6)

##Result Outputs

stargazer(reg6,

out="Table 4.html", type="html",header=FALSE,

title="DD Regression of Health on Eligibility, Time, the Intersection Term and Controls",align=TRUE, omit.stat=c("LL","ser","f","rsq","adj.rsq"),no.space=TRUE)

timestamp(stamp=date())

##------ Wed Mar 6 17:22:19 2019 ------##

savehistory(file="PB\_Set\_2\_Oscar\_CHAIX.Rhistory")