Assignment 3

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.5.3

## -- Attaching packages --------------------------------------------------------------------------------- tidyverse 1.2.1 --

## v ggplot2 3.0.0 v purrr 0.2.5  
## v tibble 1.4.2 v dplyr 0.7.6  
## v tidyr 0.8.1 v stringr 1.3.1  
## v readr 1.1.1 v forcats 0.3.0

## -- Conflicts ------------------------------------------------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(stargazer)

## Warning: package 'stargazer' was built under R version 3.5.2

##   
## Please cite as:

## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.

## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

#load csv  
  
hw3 <- read\_csv("HW3Data.csv")

## Parsed with column specification:  
## cols(  
## risk = col\_integer(),  
## bid = col\_integer(),  
## vote = col\_integer(),  
## NEP = col\_integer(),  
## income = col\_character(),  
## age = col\_character()  
## )

# Create a linear probability model that predicts a respondent's probability of voting 'yes' on the ballot based on their age, income, NEP score, the risk reduction offered by the program (risk), and the cost of the program to that respondent (bid).   
  
lm\_vote <- lm(formula = vote ~ risk + bid + NEP + income + age, data = hw3)  
  
  
  
# Coefficients:  
# (Vote) risk bid NEP incomeone\_percent incomepoor   
# 0.1196977 0.0007445 -0.0010699 0.0158639 0.0088282 0.0027386   
  
# incomerich incomevery\_rich agetofifty agetoforty agetosixty agetothirty   
# 0.0074891 0.0467922 0.0099816 -0.0201190 -0.0162261 0.0204401   
  
  
# Put linear model into stargazer table   
  
stargazer(lm\_vote)

##   
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvard.edu  
## % Date and time: Thu, May 16, 2019 - 12:29:10 PM  
## \begin{table}[!htbp] \centering   
## \caption{}   
## \label{}   
## \begin{tabular}{@{\extracolsep{5pt}}lc}   
## \\[-1.8ex]\hline   
## \hline \\[-1.8ex]   
## & \multicolumn{1}{c}{\textit{Dependent variable:}} \\   
## \cline{2-2}   
## \\[-1.8ex] & vote \\   
## \hline \\[-1.8ex]   
## risk & 0.001 \\   
## & (0.001) \\   
## & \\   
## bid & $-$0.001 \\   
## & (0.001) \\   
## & \\   
## NEP & 0.016$^{\*\*\*}$ \\   
## & (0.002) \\   
## & \\   
## incomeone\\_percent & 0.009 \\   
## & (0.060) \\   
## & \\   
## incomepoor & 0.003 \\   
## & (0.065) \\   
## & \\   
## incomerich & 0.007 \\   
## & (0.068) \\   
## & \\   
## incomevery\\_rich & 0.047 \\   
## & (0.067) \\   
## & \\   
## agetofifty & 0.010 \\   
## & (0.063) \\   
## & \\   
## agetoforty & $-$0.020 \\   
## & (0.062) \\   
## & \\   
## agetosixty & $-$0.016 \\   
## & (0.060) \\   
## & \\   
## agetothirty & 0.020 \\   
## & (0.058) \\   
## & \\   
## Constant & 0.120 \\   
## & (0.120) \\   
## & \\   
## \hline \\[-1.8ex]   
## Observations & 500 \\   
## R$^{2}$ & 0.120 \\   
## Adjusted R$^{2}$ & 0.100 \\   
## Residual Std. Error & 0.429 (df = 488) \\   
## F Statistic & 6.055$^{\*\*\*}$ (df = 11; 488) \\   
## \hline   
## \hline \\[-1.8ex]   
## \textit{Note:} & \multicolumn{1}{r}{$^{\*}$p$<$0.1; $^{\*\*}$p$<$0.05; $^{\*\*\*}$p$<$0.01} \\   
## \end{tabular}   
## \end{table}