Problem 1

First, create the environment and load packages.

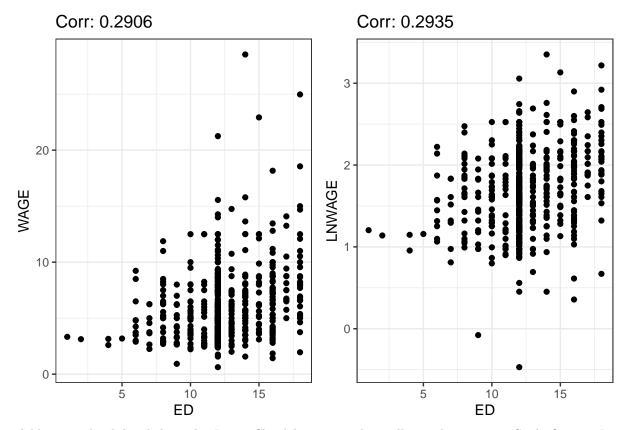
Now, lets define some functions that load in the datasets and plot visualisations

```
get_data = function(dir, name){
  df = fread(pasteO(dir, name)) %>%
    as.data.frame() %>%
    rename(LNWAGE = V11,
           ED = V1) \%>\%
    mutate(WAGE = exp(LNWAGE))
  return(df)
}
# Consider a visualisation
plot_correlations = function(df){
  corr = round(cor(df$WAGE, df$ED), 4)
  corr_ln = round(cor(df$LNWAGE, df$ED), 4)
  ggplot(data = df) +
    geom_point(aes(x = ED, y = WAGE)) +
    ggtitle(paste0("Corr: ", corr)) +
  ggplot(data = df) +
    geom_point(aes(x = ED, y = LNWAGE))+
    ggtitle(paste0("Corr: ", corr_ln))
}
```

Problem 1

Nowe we can run the functions to answer question 1

```
df = get_data(dir = dir, name = "Cps78")
plot_correlations(df)
```



Add a new chunk by clicking the $Insert\ Chunk$ button on the toolbar or by pressing Cmd+Option+I.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the Preview button or press Cmd+Shift+K to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike Knit, Preview does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.