```
# Author: Brian Lambert
   # Description: Use the gapminder dataset to explore the relationship
   # between average life expectancy and GDP for 2007.
 4
 5
    7
   # tbl_df object containing only records with year = 2007
   gap_2007 <- gapminder[gapminder$year==2007,]</pre>
   #print(str(gap_2007))
10
11
12
   14
   # displays (life expectancy, gdpPercap) for each country, color coded by continent
16
   myplot <- ggplot() +
17
       geom_point(data=gap_2007, aes(x=lifeExp, y=gdpPercap, group=country, color=continent)) +
18
       labs(x="Life Expectancy (years)", y="GDP per Capita (gdp/population)",
            title = "Life Expectancy vs GDP per Capita by Country: 2007",
19
20
            caption="Source: Jennifer Bryan (2015). gapminder: Data from Gapminder. R package version
            0.2.0.")
21
22
   myplot
   # save chart to pdf. Removed w,h,inch to increase graph size to fit title and spread data
   ggsave(plot=myplot, "/Users/brianlambert/Desktop/STA404/Module_1/gapminder_lifeExpVsGdp_2007.pdf", device="pdf")
25
27
28 # max and min gdp per capita by country
   gdp_min \leftarrow gap_2007[gap_2007$gdpPercap == min(gap_2007$gdpPercap),]
   [adp_max <- aap_2007[aap_2007$adpPercap == max(aap_2007$adpPercap),]
31
   print(gdp_min)
   print(gdp_max)
33
   # max and min life expectancy by country
   lifeExp_min < - gap_2007[gap_2007$lifeExp == min(gap_2007$lifeExp),]
   lifeExp_max <- gap_2007[gap_2007$lifeExp == max(gap_2007$lifeExp),]
36
   print(lifeExp_min)
37
   print(lifeExp_max)
```