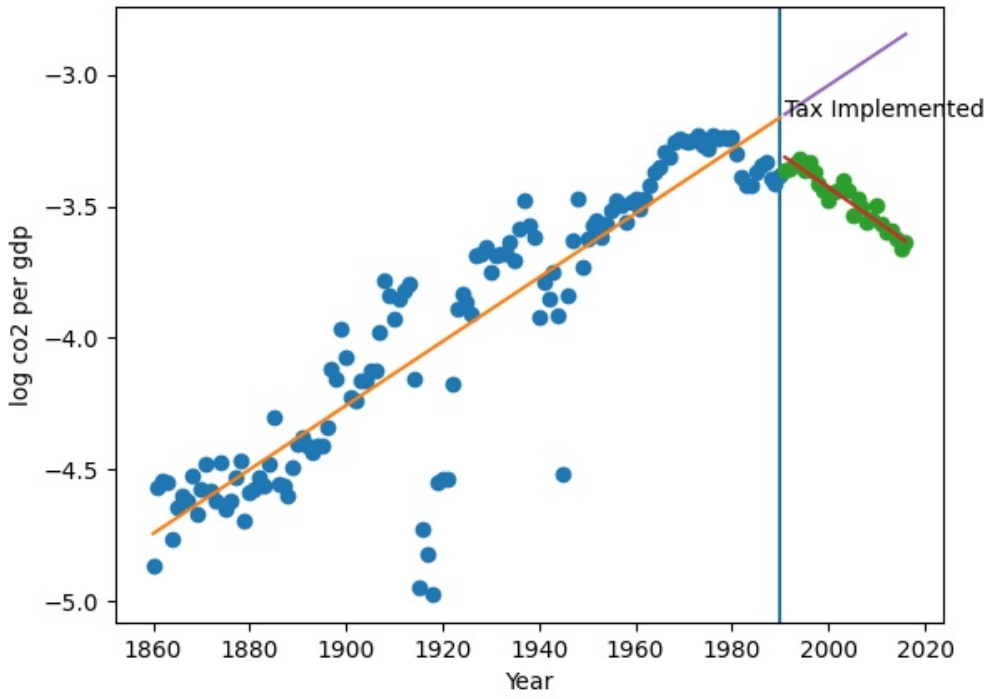
The Effectiveness of Finland's Carbon Tax Policy on Reducing CO2 Emissions.

In this instance of our program, we are testing the effectiveness of Finland's policy of Carbon Tax. Our program generates a scatter plot of the log_co2_per_gdp of the country against the years since data was being collected.

We generate the slope and coefficient of the linear regression lines using this data Before the carbon tax was implemented, the linear regression line for the country of Finland has the slope 0.012157908400110235 and the y-intercept as -27.35641825702519. After the carbon tax implementation, the linear regression line was found to have the slope -0.012753740101805784 and the y-intercept to be 22.079352956658294. The plotted values of the country's log_co2_per_gdp against years is shown in a plot.



From our plotted values and the slopes of linear regression model generated before and after the tax implementation, we can see that there is sizeable difference between the slopes of linear regression model before and after the implementation: the difference is greater than half the size of the slope before implementation. Thus, we may be able to conclude that the implementation of Carbon Tax by Finland has been successful in reducing co2 emissions