# Analytical Modal Lab-1

Pradeep Paladugula

2020-01-28

```r
source("http://www.openintro.org/stat/data/arbuthnot.R")
boys<- arbuthnot$boys
girls<- arbuthnot$girls
total<- boys + girls
year<- arbuthnot$year

linegraph = function(x, y, z, xdata){
  plot(xdata, x, type = "o", col = "red", xlab = "Years", ylab = "Values of
boys, Girls and thier total value")
  lines(xdata, y, type = "o", col = "blue")
  lines(xdata, z, type = "o", col = "black")
  title("Population of Boys and Girls")
  axis(1, seq(1630, 1710, 1))
  axis(2, seq(3000, 20000, 100))
  legend(1704, 3200, legend=c("boys", "girls", "total"), col=c("red", "blue",
"black"), lty = 1, lwd = 3, text.col = "black", bty = "f", cex = 2)
}

linegraph(boys, girls, total, year)
```