```
WorkSheet-5.R × WorkSheet-6.R* ×
                                                                                                            -\Box
Run 🕩 🕆 🖯 🕒 Source 🗸 🗏
     library(ggplot2)
     library(gridExtra)
  2
  4 bernoulli_data <- rbinom(n = 1000, size = 1, prob = 0.3)
  5
     binomial_data <- rbinom(n = 1000, size = 10, prob = 0.5)
  6 poisson_data <- rpois(n = 1000, lambda = 3)
  8
     plot1 \leftarrow ggplot(data.frame(x = bernoulli_data), aes(x = x, fill = factor(x))) +
       geom_bar(stat = "count", width = 0.5) +
labs(title = "Bernoulli Distribution", x = "Outcome (Success/Failure)", y = "Frequency") +
  9
 10
        scale_fill_manual(values = c("0" = "blue", "1" = "red"))
 11
 12
 13
     plot2 \leftarrow ggplot(data.frame(x = binomial_data), aes(x = x, fill = factor(x))) +
 14
        geom\_bar(stat = "count", width = 0.5) +
        labs(title = "Binomial Distribution", x = "Number of Successes", y = "Frequency") +
 15
       scale_fill_brewer(palette = "Set1")
 16
 17
 18 plot3 <- ggplot(data.frame(x = poisson_data), aes(x = x, fill = factor(x))) +
 19
        geom_bar(stat = "count", width = 0.5) +
 20
        labs(title = "Poisson Distribution", x = "Number of Events", y = "Frequency") +
 21
        scale_fill_brewer(palette = "Set3")
 22
 23 # Arrange plots on a single page
 24
     grid.arrange(plot1, plot2, plot3, ncol = 3)
 25
 25:1 (Top Level) $
                                                                                                          R Script $
Environment History Connections Tutorial
```



