# Define the scores for each class

class\_A <- c(76, 35, 47, 64, 95, 66, 89, 36, 84)

class\_B <- c(51, 56, 84, 60, 59, 70, 63, 66, 50)

# (i) Calculate Mean, Median, and Range

mean\_A <- mean(class\_A)

median\_A <- median(class\_A)

range\_A <- max(class\_A) - min(class\_A)

mean\_B <- mean(class\_B)

median\_B <- median(class\_B)

range\_B <- max(class\_B) - min(class\_B)

# Print the results

print(paste("Class A - Mean:", mean\_A, "Median:", median\_A, "Range:", range\_A))

print(paste("Class B - Mean:", mean\_B, "Median:", median\_B, "Range:", range\_B))

# (ii) Boxplot to compare distributions

boxplot(class\_A, class\_B,

names = c("Class A", "Class B"),

col = c("skyblue", "lightgreen"),

main = "Comparison of Class A and B Scores",

ylab = "Scores")

# Inferences:

# - Compare median lines in the boxplot for central tendency.

# - Check the spread of interquartile range (IQR).

# - Identify if any class has extreme outliers.