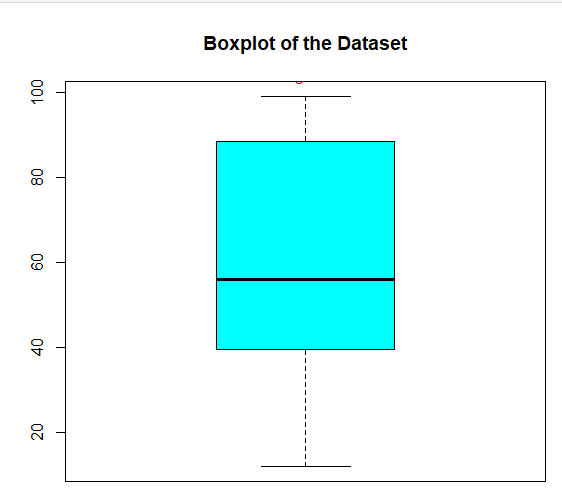
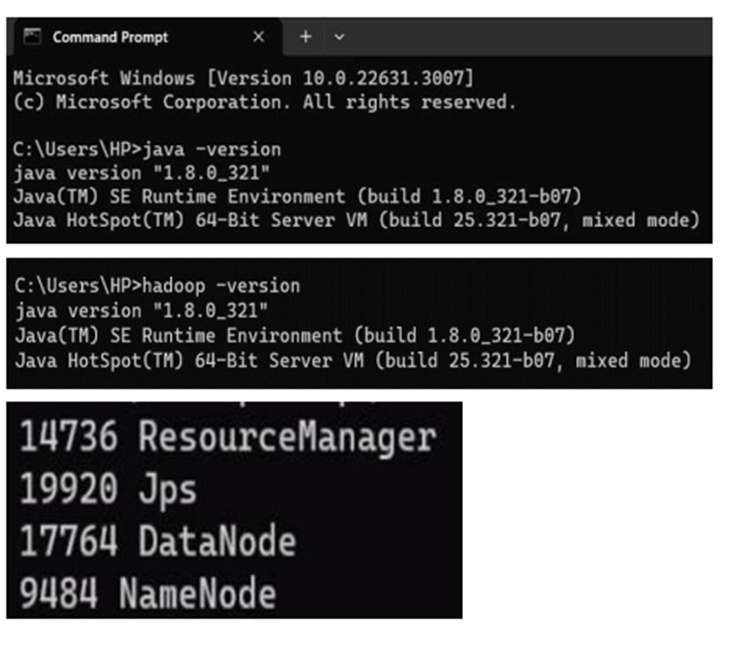
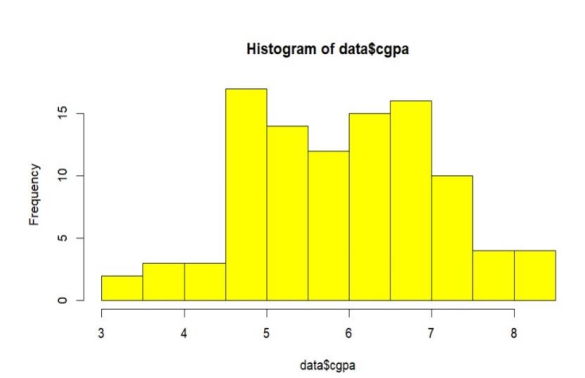
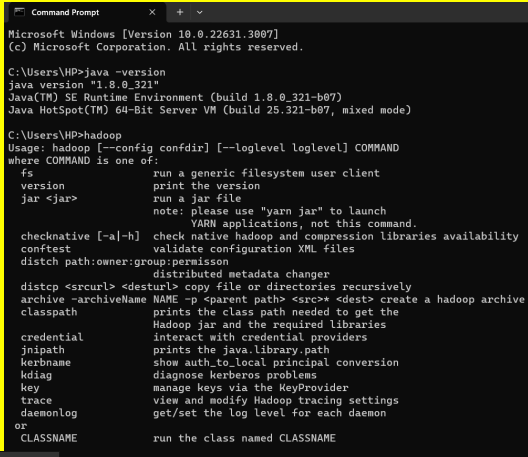
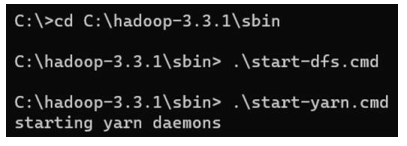
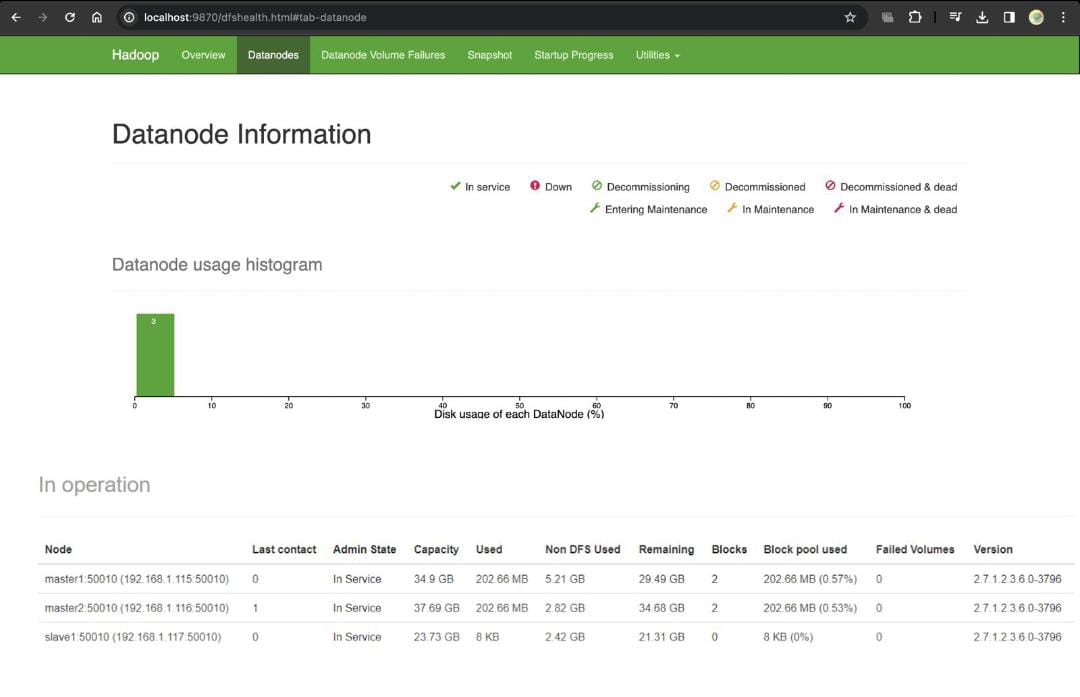
|  |
| --- |
| *#data set of student marks*  *data <- c(23, 45, 67, 12, 89, 45, 23, 67, 34, 56 , 90 , 99 ,88 ,54 ,97)*  *# Calculate the range*  *range\_value <- range(data)*  *# Calculate the quartile deviation*  *qdev\_value <- IQR(data) / 2*  *# Calculate the standard deviation*  *sd\_value <- sd(data)*  *# Calculate the variance*  *variance\_value <- var(data)*  *# Create a boxplot for the dataset*  *boxplot(data, main = "Boxplot of the Dataset", col = "cyan", border = "black")*  *# Add text annotations for each measure of dispersion*  *text(1, max(data) + 5, paste("Range: ", diff(range\_value)), col = "red")*  *text(1, max(data) + 10, paste("Quartile Deviation: ", qdev\_value), col = "blue")*  *text(1, max(data) + 15, paste("Standard Deviation: ", sd\_value), col = "green")*  *text(1, max(data) + 20, paste("Variance: ", variance\_value), col = "purple")* |

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