**Task -4 (5M)**

**Find the Kurtosis and skewness without using inbuilt function and draw the histogram for the following data. (5M)**

**8, 9, 56, 12, 3, 33, 23, 20, 19, 30, 44, 19, 90,3,55,67.**

**CODE**

# Task-4

install.packages("moments")

any(grepl("moments",installed.packages()))

library("moments")

x<-c(8,9,56,12,3,33,23,20,19,30,44,19,90,3,55,67)

cat("Kurtosis of data is : ",kurtosis(x))

mean\_data <- sum(x)/length(x)

skewness1<-sum((x-mean\_data)^3)/length(x)/sqrt((sum((x-mean\_data)^2)/length(x))^3)

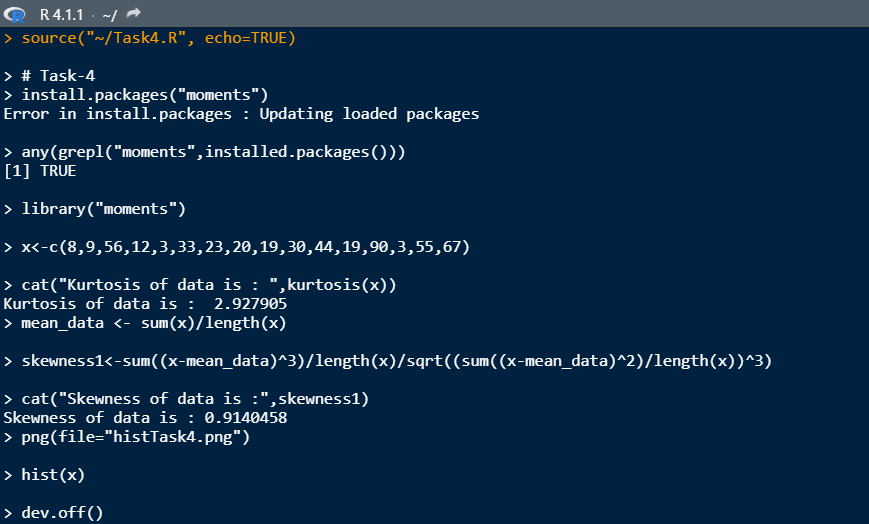
cat("Skewness of data is :",skewness1)

png(file="histTask4.png")

hist(x)

dev.off()

**OUTPUT**

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