ACADGILD ASSIGNMENT 7.1

SESSION 7: Basic Statistics

1. Histogram for all variables in a dataset mtcars.

Write a program to create histograms for all columns

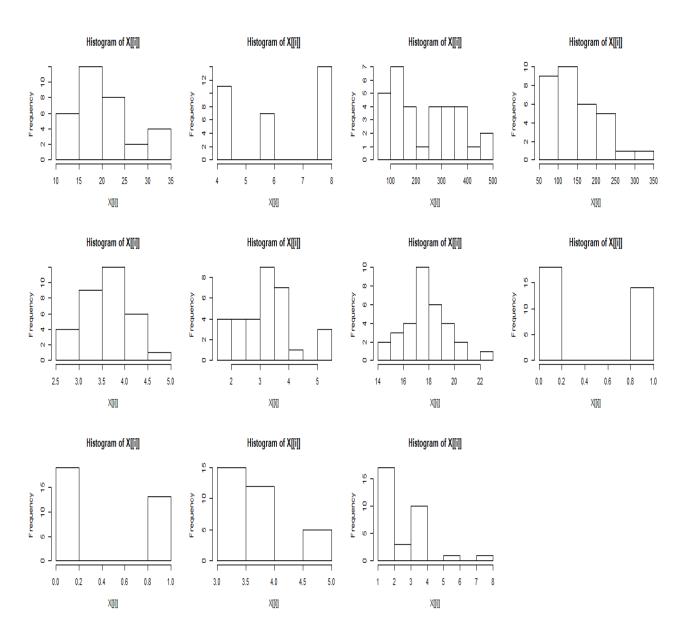
Answer:

```
library(readr)
mtcars <- read_csv("C:/Users/ManojChowdary/Downloads/mtcars.csv")
View(mtcars)
str(mtcars)
par(mfrow=c(3,4))
lapply(mtcars[2:12],hist) # applying the function to all the columns
```

Output from console

```
Parsed with column specification:
cols(
model = col_character(),
mpg = col_double(),
cyl = col_double(),
disp = col_double(),
hp = col_double(),
drat = col_double(),
wt = col_double(),
vs = col_double(),
vs = col_double(),
am = col_double(),
gear = col_double(),
```

carb = col_double()

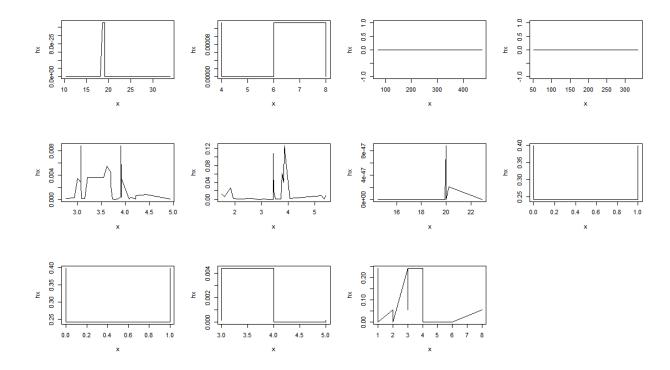


2. Check the probability distribution of all variables in mtcars.

Answer:

Output from console

```
library(readr)
mtcars <- read_csv("C:/Users/ManojChowdary/Downloads/mtcars.csv")
View(mtcars)
mtcars
str(mtcars)
par(mfrow=c(3,4))
prob <- function(prob){ x <- sort(prob)}
hx <- dnorm(prob)
p <- plot(x, hx, type="l")
}
lapply(mtcars[2:12], prob) # applying the function to all the columns
```



3. Write a program to create boxplot for all variables.

Answer:

library(readr)

 $mtcars <- read_csv("C:/Users/ManojChowdary/Downloads/mtcars.csv") \\$

View(mtcars)

mtcars

str(mtcars)

library(ggplot2)

par(mfrow=c(3,4))

lapply(mtcars[2:12],boxplot) # applying the function to all the columns

Output from console

