ACADGILD ASSIGNMENT 7.1

1. **Histogram for all variables in a dataset mtcars.**
    Write a program to create histograms for all columns

ANSWER:

```
library(reshape2)
head(melt(mtcars))

library(ggplot2)
ggplot(data = melt(mtcars), mapping = aes(x = value)) +
geom_histogram(bins = 10) + facet_wrap(~variable, scales = 'free_x')
```

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

ANSWER:

```
library(ggplot2)

mtcars %>%
keep(is.numeric) %>%
gather() %>%
ggplot(aes(value)) +
facet_wrap(~ key,scales = "free") +
stat_density()
```

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

ANSWER:

```
library(ggplot2)
library(reshape)
m1 <- melt(mtcars)
ggplot(m1,aes(x = variable,y = value)) + facet_wrap(~variable) + geom_boxplot()
```