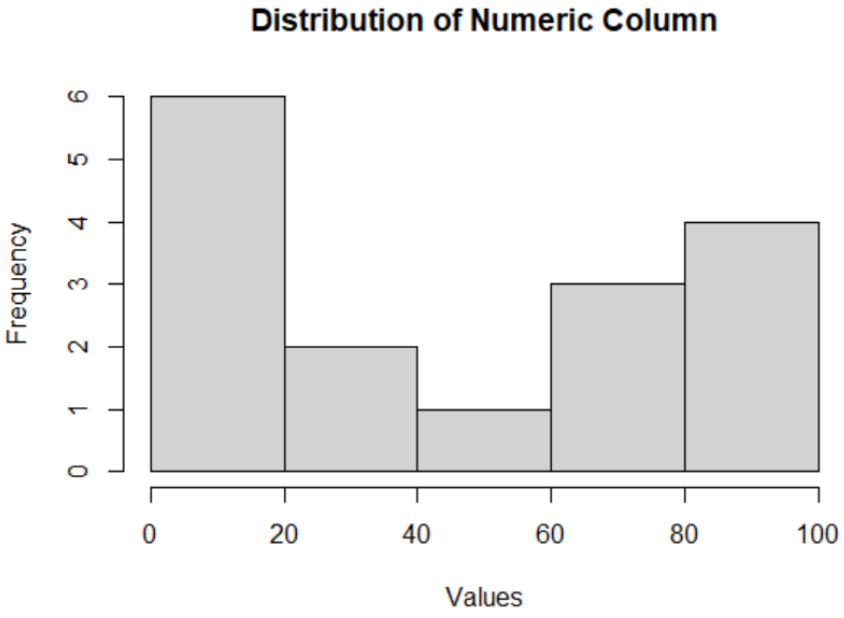
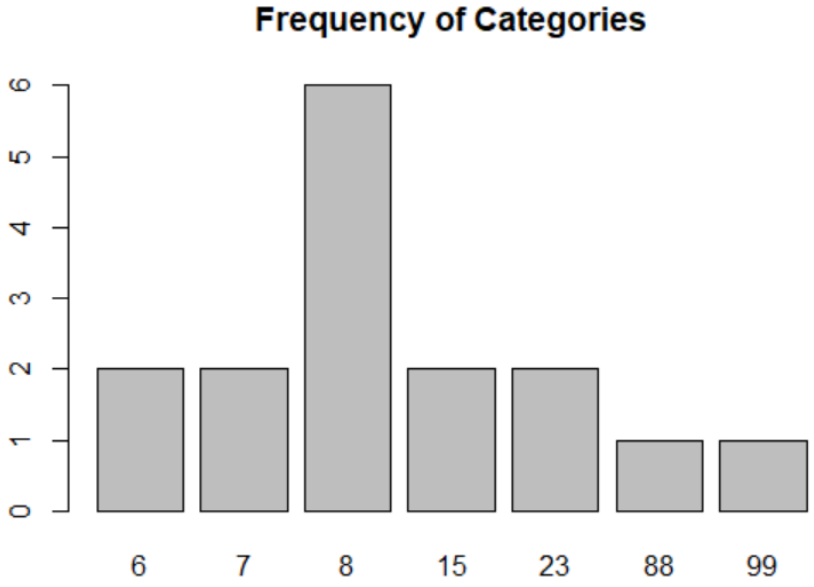
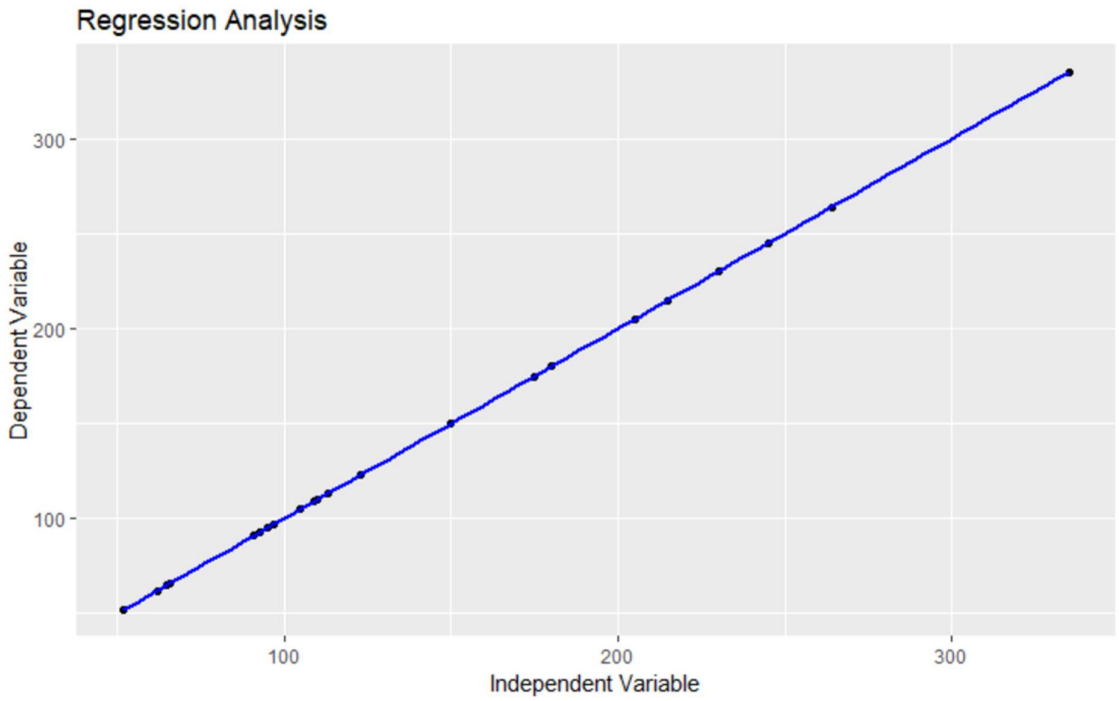



```r
install.packages("readr")
library(readr)
getwd()
dataset <- read.csv('mall.csv')
str(dataset)
head(dataset)
summary(dataset)
subset_data <- dataset[dataset$Column_Name > 50, ]
dataset$new_variable <- dataset$old_variable * 2
filtered_data <- subset(dataset, Column_Name == "Value")
mean_value <- mean(dataset$Numeric_Column)
median_value <- median(dataset$Numeric_Column)
sd_value <- sd(dataset$Numeric_Column)
table(dataset$Categorical_Column)
hist(dataset$Numeric_Column, main = "Distribution of Numeric Column", xlab = "Values")
barplot(table(dataset$Categorical_Column), main = "Frequency of Categories")
```




```r
library(ggplot2)
data <- read.csv("mtcars.csv")
# Perform linear regression
linear_model <- lm(hp ~ mpg, data = data)
# Perform multiple regression
multiple_model <- lm(hp ~ mpg + disp, data = data)
# Perform polynomial regression
poly_model <- lm(hp ~ poly(mpg, degree = 2), data = data)
# Evaluate model performance
summary(linear_model)
summary(multiple_model)
summary(poly_model)
# Visualize regression results
ggplot(data, aes(x = hp, y = hp)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE, color = "blue") +
  labs(title = "Regression Analysis", x = "Independent Variable", y = "Dependent Variable")

```