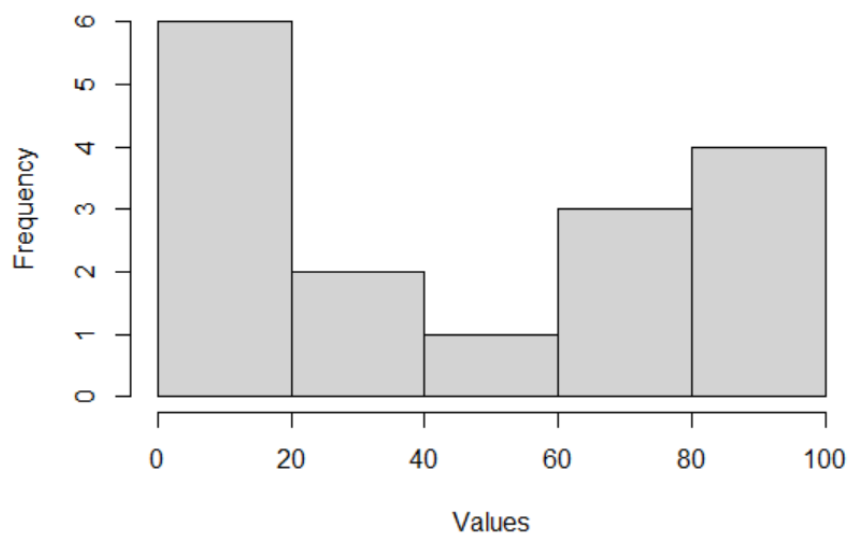
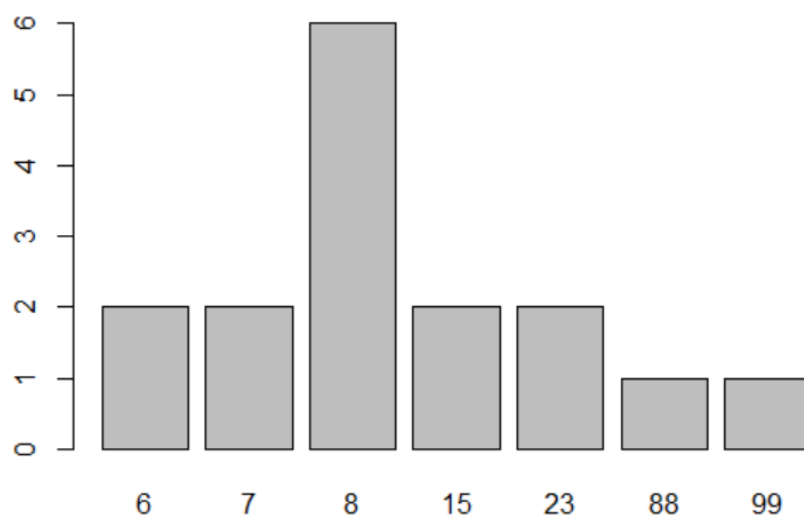


Distribution of Numeric Column



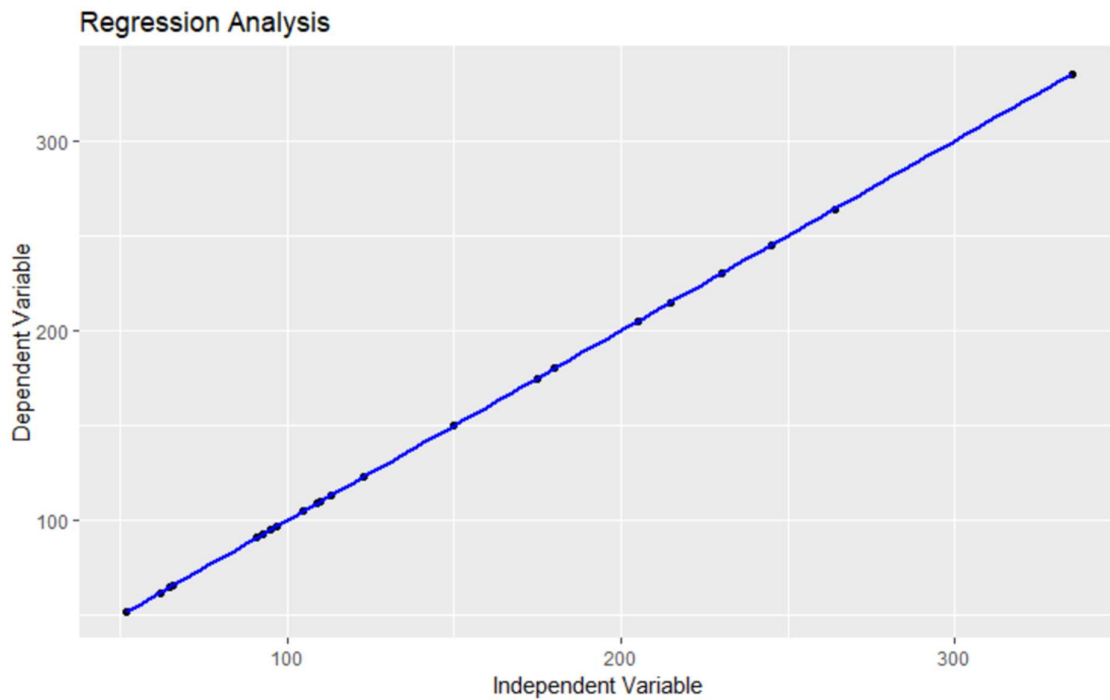
Frequency of Categories



```

1 install.packages("readr")
2 library(readr)
3 getwd()
4 dataset <- read.csv('mall.csv')
5 str(dataset)
6 head(dataset)
7 summary(dataset)
8 subset_data <- dataset[dataset$Column_Name > 50, ]
9 dataset$new_variable <- dataset$old_variable * 2
10 filtered_data <- subset(dataset, Column_Name == "value")
11 mean_value <- mean(dataset$Numeric_Column)
12 median_value <- median(dataset$Numeric_Column)
13 sd_value <- sd(dataset$Numeric_Column)
14 table(dataset$Categorical_Column)
15 hist(dataset$Numeric_Column, main = "Distribution of Numeric Column", xlab = "Values")
16 barplot(table(dataset$Categorical_Column), main = "Frequency of Categories")

```



```
1 library(ggplot2)
2 data <- read.csv("mtcars.csv")
3 # Perform linear regression
4 linear_model <- lm(hp ~ mpg, data = data)
5 # Perform multiple regression
6 multiple_model <- lm(hp ~ mpg + disp, data = data)
7 # Perform polynomial regression
8 poly_model <- lm(hp ~ poly(mpg, degree = 2), data = data)
9 # Evaluate model performance
10 summary(linear_model)
11 summary(multiple_model)
12 summary(poly_model)
13 # Visualize regression results
14 ggplot(data, aes(x = hp, y = hp)) +
15   geom_point() +
16   geom_smooth(method = "lm", se = FALSE, color = "blue") +
17   labs(title = "Regression Analysis", x = "Independent Variable", y = "Dependent Variable")
18
```