**Program:**

df <- data.frame(

Name = c('Alice', 'Bob', 'Charlie', 'David', 'Eva', 'Frank', 'Grace', 'Henry'),

Age = c(25, 30, 35, NA, 28, 40, 22, 30),

Gender = c('F', 'M', 'M', 'M', 'F', 'M', 'F', 'M'),

Survived = c(1, 0, 1, 0, 1, 0, 1, 0),

Fare = c(100.0, 80.0, 90.5, 85.0, 110.0, 75.0, 95.0, 70.0)

)

print("Initial Dataset:")

print(df)

str(df)

df\_cleaned <- na.omit(df)

df\_cleaned <- unique(df\_cleaned)

print("Cleaned Dataset:")

print(df\_cleaned)

selected\_columns <- df\_cleaned[, c("Name", "Age", "Survived")]

print("Selected Columns:")

print(selected\_columns)

filtered\_rows <- subset(df\_cleaned, Age > 30 & Survived == 0)

print("Filtered Rows (Age > 30 and Not Survived):")

print(filtered\_rows)

library(ggplot2)

ggplot(df\_cleaned, aes(x = Age, y = Fare, color = as.factor(Survived))) +

geom\_point(size = 3) +

labs(title = "Age vs Fare Colored by Survival",

x = "Age",

y = "Fare",

color = "Survived") +

theme\_minimal()