**# Step 1: Load required libraries**

**library(ggplot2)**

**# Step 2: Load the dataset (assuming the file "diabetes.csv" is in your working directory)**

**diabetes\_data <- read.csv("diabetes.csv")**

**# Step 3: Inspect the dataset (optional)**

**head(diabetes\_data)**

**# Step 4: Clean the data (if required)**

**# For example, check for NA values**

**diabetes\_data <- na.omit(diabetes\_data)**

**# Step 5: Create a scatterplot for BloodPressure vs Age**

**ggplot(diabetes\_data, aes(x = Age, y = BloodPressure)) +**

**geom\_point() + # Scatter plot**

**labs(title = "Blood Pressure vs Age", x = "Age", y = "Blood Pressure") +**

**theme\_minimal()**

**# Step 6: Create Age Groups (for bar chart)**

**# You can create age groups such as: "Under 30", "30-40", "40-50", "50-60", "60+"**

**diabetes\_data$AgeGroup <- cut(diabetes\_data$Age, breaks = c(0, 30, 40, 50, 60, Inf),**

**labels = c("Under 30", "30-40", "40-50", "50-60", "60+"))**

**# Step 7: Create a bar chart for Blood Pressure by Age Group**

**ggplot(diabetes\_data, aes(x = AgeGroup, fill = factor(BloodPressure))) +**

**geom\_bar() +**

**labs(title = "Blood Pressure Distribution by Age Group", x = "Age Group", y = "Count") +**

**theme\_minimal() +**

**scale\_fill\_manual(values = c("lightblue", "orange"))**