install.packages("readr")

install.packages("tidyverse")

library(readr)

my\_data<- read\_csv(file.choose())

str(my\_data)

# Box plot of Age

library(ggplot2)

data<- data.frame(my\_data)

ggplot(data, aes(y = Age)) +

geom\_boxplot(colour="red") +

labs(y = "Age", title = "Box plot of Age")

library(dplyr)

data %>%

count(Frailty) %>%

ggplot(aes(x = Frailty, y = n, fill = Frailty)) +

geom\_bar(stat = "identity") +

labs(x = "Frailty", y = "Count",

title = "Bar plot of Frailty")

names(data)[4]<-"Grip\_strength"

names(data)[1]<-"Height"

str(data)

library(ggplot2)

ggplot(data, aes(x = Grip\_strength )) +

geom\_histogram(binwidth = 2, fill = "skyblue", color = "black") +

labs(x = "Grip\_strength", y = "Frequency",

title = "Histogram of Grip strength")

# Bar plot of Age categories

data <- data %>%

mutate(Age\_Category = case\_when(

Age < 30 ~ "Young",

Age >= 30 & Age < 50 ~ "Middle-aged",

Age >= 50 ~ "Senior"

))

ggplot(data, aes(x = Age\_Category, fill = Age\_Category)) +

geom\_bar() +

labs(x = "Age Category", y = "Count",

title = "Bar plot of Age categories")

# Density plot of Height

ggplot(data, aes(x = Height)) +

geom\_density(fill = "lightgreen", alpha = 0.7) +

labs(x = "Height (Inches)", y = "Density",

title = "Density plot of Height")

pie(table(my\_data$Frailty), main="Frailty Distribution")

plot(density(my\_data$Age), main="Density Plot of Age")