DBSCAN CLUSTERING

CODE:

# Install and load the dbscan package if you haven't already

# install.packages("dbscan")

library(dbscan)

# Read the dataset

data <- read.csv("C:/Users/sriva/OneDrive/Desktop/ObesityDataSet.csv")

# Select only the numeric columns for clustering

numeric\_data <- data[, c("Age", "Height", "Weight", "FCVC", "NCP", "CH2O", "FAF", "TUE")]

# Scale the numeric data

scaled\_data <- scale(numeric\_data)

# Perform DBSCAN clustering

dbscan\_fit <- dbscan(scaled\_data, eps = 0.5, minPts = 5) # Adjust eps and minPts as needed

# Visualize clustering results

plot(scaled\_data, col = dbscan\_fit$cluster + 1, pch = 20,

main = "DBSCAN Clustering")

legend("topleft", legend = c("Noise", unique(dbscan\_fit$cluster)),

col = c("black", palette(), pch = 20))

# Note: If the number of clusters is large, you may need to adjust the palette() function or use a custom color palette