#1 #a first_11_letters <- LETTERS[1:11] first_11_letters

#b odd_numbered_letters <- LETTERS[seq(1, length(LETTERS), by = 2)] odd_numbered_letters

#c vowels <- LETTERS[LETTERS %in% c("A", "E", "I", "O", "U")] vowels

#d last_5_lowercase <- tail(letters, 5) last_5_lowercase

#e letters_15_to_24 <- letters[15:24] letters_15_to_24

city <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal Island", "Davao City") city

temp <- c(42, 39, 34, 34, 30, 27) temp

df <- data.frame(City = city, Temperature = temp) df

names(df) <- c("City", "Temperature") names(df)

str(df)

df[3,] df[4,]

City with the highest temperature

max_temp_city <- df[df$Temperature == max(df$Temperature), "City"]

City with the lowest temperature

min_temp_city <- df[df$Temperature == min(df$Temperature), "City"]

max_temp_city min_temp_city

mat <- matrix(c(1:8, 11:14), nrow = 3, ncol = 4) mat

mat * 2

mat[2,]

mat[1:2, 3:4]

mat[3, 2:3]

mat[, 4]

rownames(mat) <- c("isa", "dalawa", "tatlo") colnames(mat) <- c("uno", "dos", "tres", "quatro") mat

dim(mat) <- c(6, 2) mat

numeric_values <- c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1) repeated_values <- rep(numeric_values, each = 2) array_3d <- array(repeated_values, dim = c(2, 4, 3))

rownames(array_3d) <- letters[1:2] colnames(array_3d) <- LETTERS[1:4] dimnames(array_3d) <- list("1st-Dimensional Array", "2nd-Dimensional Array", "3rd-Dimensional Array")