

Class Activity 15

Your name here

April 26 2024

Group Activity 1

a. Write a for loop to iterate over the columns of the ‘energy’ dataset and print the names of all columns containing the string “House”. Please use the function `colnames()` to extract the column names and store the results in a list.

Answer:

b. Using a for loop, calculate and print the mean energy consumption of houses you identified in part a.

Group Activity 2

1. Make a data frame of quantiles for **energy** buildings in columns 9-90 (you will need `na.rm = TRUE`)

2. Add a variable to identify the quantile

3. Reshape the data frame to make variables **stat** (describing the quantile), **building** and **quant** (quantile value)

4. Plot the KWH value for each quantile on the x-axis for the buildings **Sayles-Hill**, **Center_for_Mathematics_&_Computing**, **Olin_Hall_of_Science**