## RWorksheet\_Jacildo#4b

## Czharina Mae Jacildo

## 2024-10-30

1. Using the for loop, create an R script that will display a 5x5 matrix as shown in Figure 1. It must contain vector A = [1,2,3,4,5] and a  $5 \times 5$  zero matrix.

```
vectorA <- c(1, 2, 3, 4, 5)
matrixx <- matrix (0, nrow = 5, ncol = 5)

for (i in 1:5) {
   for (j in 1:5) {
     matrixx[i, j] <- abs(vectorA[i] - vectorA[j])
   }
}
print(matrixx)</pre>
```

```
[,1] [,2] [,3] [,4] [,5]
## [1,]
            0
                  1
                       2
## [2,]
            1
                  0
                             2
                                   3
                       1
## [3,]
                             1
                                   2
## [4,]
            3
                  2
                             0
                                   1
                       1
## [5,]
```

2. Print the string "\*" using for() function. The output should be the same as shown in Figure

```
rows <- 5

for (i in 1:rows) {
   cat(rep("*", i), "\n")
}

## *</pre>
```

- ## \* \* ## \* \* \* ## \* \* \* \*
  - 3. Get an input from the user to print the Fibonacci sequence starting from the 1st input up to 500. Use repeat and break statements. Write the R Scripts and its output.
  - 4. Import the dataset as shown in Figure 1 you have created previously.
  - a. What is the R script for importing an excel or a csv file? Display the first 6 rows of the dataset? Show your codes and its result