RWorksheet_Somosera#3a.Rmd

2023-10-07

```
FLet<- LETTERS [1:11]
FLet
## [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K"
OddLet <- LETTERS[seq(1,25,2)]
OddLet
## [1] "A" "C" "E" "G" "I" "K" "M" "O" "Q" "S" "U" "W" "Y"
vwls <- c(letters[which(letters %in% c("a","e","i","o","u"))],</pre>
            LETTERS[which(LETTERS %in% c("A", "E", "I", "O", "U"))])
บพไร
## [1] "a" "e" "i" "o" "u" "A" "E" "I" "O" "U"
lastfv<- tail(letters, 5)</pre>
lastfv
## [1] "v" "w" "x" "v" "z"
Betweenletters<- letters[15:24]
Betweenletters
## [1] "o" "p" "q" "r" "s" "t" "u" "v" "w" "x"
City <- c("Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island ,Davao City")
City
## [1] "Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island ,Davao City"
Temp <- c("42°C, 39°C, 34°C, 34°C, 30°C, 27°C")
Temp
## [1] "42°C, 39°C, 34°C, 34°C, 30°C, 27°C"
df <- data.frame(City, Temp)</pre>
df
##
                                                                          City
## 1 Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island ,Davao City
## 1 42°C, 39°C, 34°C, 34°C, 30°C, 27°C
names(df) <- c("City", "Temperature")</pre>
names(df)
## [1] "City"
                     "Temperature"
str(df)
## 'data.frame':
                   1 obs. of 2 variables:
## $ City : chr "Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island ,Davao City"
## $ Temperature: chr "42°C, 39°C, 34°C, 34°C, 30°C, 27°C"
df [3:4,]
##
       City Temperature
## NA <NA> <NA>
```

```
## NA.1 <NA> <NA>
matr \leftarrow matrix(c(1:8, 11:14), nrow = 3, ncol = 4, byrow = TRUE)
      [,1] [,2] [,3] [,4]
##
## [1,] 1 2 3 4
## [2,] 5
             6
                  7
## [3,] 11 12 13 14
matrix(c(1:8, 11:14), nrow = 3, ncol = 4, byrow = TRUE)*2
## [,1] [,2] [,3] [,4]
## [1,] 2 4 6 8
## [2,] 10
            12
                 14
## [3,] 22 24 26 28
matrix(c(1:8,11:14),ncol=4,nrow=3)[2,]
## [1] 2 5 8 13
matrix(c(1:8,11:14),ncol=4,nrow=3)[1:2,c(3,4)]
## [,1] [,2]
## [1,] 7 12
## [2,] 8 13
matrix(c(1:8,11:14),ncol=4,nrow=3)[3,c(2,3)]
## [1] 6 11
matrix(c(1:8,11:14),ncol=4,nrow=3)[,4]
## [1] 12 13 14
newmat <- matrix(c(1:8,11:14)*2,ncol=4,nrow=3)</pre>
rownames(newmat) <- c("isa","dalawa","tatlo")</pre>
colnames(newmat) <- c("uno", "dos", "tres", "quatro")</pre>
##
       uno dos tres quatro
## isa
       2 8 14
## dalawa 4 10 16
                         26
## tatlo 6 12 22
dim(matr) \leftarrow c(6,2)
matr
##
      [,1] [,2]
## [1,] 1 3
## [2,] 5
              7
## [3,] 11 13
## [4,] 2
             4
       6
## [5,]
## [6,] 12 14
arr \leftarrow c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1)
arr
## [1] 1 2 3 6 7 8 9 0 3 4 5 1
arry3D \leftarrow array(arr, dim = c(2, 4, 3))
arry3D
## , , 1
##
## [,1] [,2] [,3] [,4]
```

```
## [1,] 1 3 7 9
## [2,] 2 6 8 0
##
## , , 2
##
## [,1] [,2] [,3] [,4]
## [1,] 3 5 1 3
## [2,] 4 1 2 6
##
## , , 3
##
## [,1] [,2] [,3] [,4]
## [1,] 7 9 3 5
## [2,] 8 0 4 1
dim(arry3D)
## [1] 2 4 3
dimnames(arry3D) <- list(c("a", "b"), LETTERS[1:4], c("1st-Dimensional Array", "2nd-Dimensional Array",</pre>
arry3D
\mbox{\tt \#\#} , , 1st-Dimensional Array
##
## A B C D
## a 1 3 7 9
## b 2 6 8 0
\#\# , , 2nd-Dimensional Array
##
## A B C D
## a 3 5 1 3
## b 4 1 2 6
## , , 3rd-Dimensional Array
##
## A B C D
## a 7 9 3 5
## b 8 0 4 1
```