RWorksheet_Camarista#3a

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```
LETTERS
```

1.There is a built-in vector LETTERS contains the uppercase letters of the alphabet and letters which contains the lowercase letters of the alphabet.

```
##  [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S"
## [20] "T" "U" "V" "W" "X" "Y" "Z"
```

```
letters
```

```
##  [1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l" "m" "n" "o" "p" "q" "r" "s"
## [20] "t" "u" "v" "w" "x" "y" "z"
```

```
#- a. You need to produce a vector that contains the first 11 letters
LETTERS[1:11]
```

Based on the above vector LETTERS:

```
##  [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K"
```

```
#- b. Produce a vector that contains the odd numbered letters.
odd_LETTERS <- LETTERS[seq(1, 26, by = 2)]
odd_LETTERS
```

```
##  [1] "A" "C" "E" "G" "I" "K" "M" "O" "Q" "S" "U" "W" "Y"
```

```
#- c. Produce a vector that contains the vowels
vowels <- c("A","E", "I", "O", "U" )
```

```
#- d.  Produce a vector that contains the last 5 lowercase letters.
letters[22:26]
```

Based on the above vector letters:

```
## [1] "v" "w" "x" "y" "z"
```

```
#- e. Produce a vector that contains letters between 15 to 24 letters in lowercase.
letters[15:24]
```

```
##  [1] "o" "p" "q" "r" "s" "t" "u" "v" "w" "x"
```

2. Create a vector(not a dataframe) with the average temperatures in April for Tuguegarao City, Manila, Iloilo City, Tacloban, Samal Island, and Davao City.

```
# - a. What is the R code and its result for creating a character vector for the city/town of Tuguegara
city <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban City", "Samal Island", "Davao City")
city
```

The average temperatures in Celcius are 42, 39, 34, 34, 30, and 27 degrees

```
## [1] "Tuguegarao City" "Manila"          "Iloilo City"     "Tacloban City"
## [5] "Samal Island"    "Davao City"
```

```
# - b. The average temperatures in Celcius are 42, 39, 34, 34, 30, and 27 degrees. Name the object as t
temp <- c(42, 39, 34, 34, 30, 27)
temp
```

```
## [1] 42 39 34 34 30 27
```

```
# - c. Create a dataframe to combine the city and the temp by using 'data.frame(). What the R code and
CityTemp <- data.frame(City = city, Temp = temp)
CityTemp
```

```
##              City Temp
## 1 Tuguegarao City   42
## 2          Manila   39
## 3     Iloilo City   34
## 4   Tacloban City   34
## 5    Samal Island   30
## 6      Davao City   27
```

```
# - d. Associate the dataframe you have created in 2.(c) by naming the columns using the names() functi
```