# Worksheet3b\_Cartoja

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#1. Create a data frame using the table below. #a. Write the codes.

dataframe <- data.frame(Respondents,Sex,FathersOccupation,Personsathome,Siblingsatschool,Typesofhouses)

#b.Describe the data. Get the structure or the summary of the data

#### summary(dataframe)

##	Respondent	s Se	x	Fathers	Occupation	Persons	sathome
##	Min. : 1.	00 Min.	:1.00	Min.	:1.00	Min.	: 3.0
##	1st Qu.: 5.	75 1st Qu.	:2.00	1st Qu.	:1.00	1st Qu.	: 5.0
##	Median:10.	50 Median	:2.00	Median	:2.00	Median	: 7.0
##	Mean :10.	50 Mean	:1.85	Mean	:1.95	Mean	: 6.4
##	3rd Qu.:15.	25 3rd Qu.	:2.00	3rd Qu.	:3.00	3rd Qu.	: 8.0
##	Max. :20.	00 Max.	:2.00	Max.	:3.00	Max.	:11.0
##	Siblingsats	chool Typeso	fhouses				
##	Min. :1.0	O Min.	:1.0				
##	1st Qu.:2.0	0 1st Qu	.:2.0				
##	Median :2.5	0 Median	:2.5				
##	Mean :2.9	5 Mean	:2.3				
##	3rd Qu.:4.2	5 3rd Qu	.:3.0				
##	Max. :6.0	0 Max.	:3.0				

#c. Is the mean number of siblings attending is 5?

Ans: No

#d. Extract the 1st two rows and then all the columns using the subsetting functions. Write the codes and its output.

```
A1 <- subset(dataframe[1:2, 1:6, drop = FALSE])
A1
```

```
2
## 2
#e. Extract 3rd and 5th row with 2nd and 4th column. Write the codes and its #result.
A2 \leftarrow subset(dataframe[c(3,5),c(2,4)])
A2
##
     Sex Personsathome
## 3
        1
## 5
        2
                        5
#f. Select the variable types of houses then store the vector that results as types_houses. Write the codes.
A3 \leftarrow subset(dataframe[c(1:20), c(2,6)])
type_houses <- A3
#g. Select only all Males respondent that their father occupation was farmer. Write the codes and its output.
A4 \leftarrow subset(dataframe[c(1:20), c(2,3)])
Males <- A4[dataframe$FathersOccupation == '1',]</pre>
Males
##
      Sex FathersOccupation
## 1
## 5
         2
                              1
         2
## 8
                              1
## 9
         2
                              1
## 10
         2
                              1
## 13
         2
                              1
## 16
         2
                              1
         2
## 18
                              1
## 20
#h. Select only all females respondent that have greater than or equal to 5 number #of siblings attending
school. Write the codes and its outputs
A5 \leftarrow subset(dataframe[c(1:20), c(2,5)])
females <- A5[dataframe$Siblingsatschool == '1',]</pre>
females
##
      Sex Siblingsatschool
## 4
## 6
         2
                            1
## 9
         2
                            1
                            1
## 16
#2. Write a R program to create an empty data frame. Using the following codes:
dataframe = data.frame(Integers=integer(),
                  Doubles=double(),
                  Characters=character(),
                  Logicals=logical(),
                  Factors=factor(),
                  stringsAsFactors=FALSE)
           print("Structure of the empty dataframe:")
```

## [1] "Structure of the empty dataframe:"

## print(str(dataframe))

```
## 'data.frame': 0 obs. of 5 variables:
## $ Integers : int
## $ Doubles : num
## $ Characters: chr
## $ Logicals : logi
## $ Factors : Factor w/ 0 levels:
## NULL
```