**Data Exploration Assignment**

**Problem Statement:**

Consider yourself to be Sam, who is undertaking the data science course at a prestigious university. Your first exam would be on Data Exploration. You will be asked questions on what you’ve learnt in the respective module.

Questions:

1. Extract these individual columns with the ‘$’ symbol:

a. Extract ‘InternetService’ column and store it in ‘customer\_internet\_service’

> customer\_churn$InternetService -> customer\_Internet\_service

> View(customer\_Internet\_service)

b. Extract ‘PaperlessBilling’ column and store it in ‘customer\_Paperless\_Billing’

> customer\_churn$PaperlessBilling -> customer\_paperless\_billing

> View(customer\_paperless\_billing)

c. Extract ‘StreamingTV’ column and store it in ‘customer\_Streaming\_TV’

> customer\_churn$StreamingTV -> customer\_streaming\_tv

> View(customer\_streaming\_tv)

2. Extract the 3rd, 6th and 9th columns from the ‘customer\_churn’ data.frame & store it in

‘customer\_random\_columns’

> customer\_churn[,c(3,6,9)] -> customer\_random\_columns

> View(customer\_random\_columns)

3. Extract all the columns from column number-10 to column-number 20 and store the result in

‘customer\_10\_20’

> customer\_churn[,10:20] -> customer\_10\_20

> View(customer\_10\_20)

4. Extract only these row numbers: 65, 765, 3726 & 7000 and store the result in

‘customer\_random\_rows’

> customer\_churn[c(65, 765, 3726, 7000),] -> customer\_random\_row

> View(customer\_random\_row)

5. Extract all the rows starting from row number-655 to row number-6550 & store the result in

‘customer\_continuous\_rows’

> customer\_churn[655:6550,] -> customer\_continuous\_rows

> View(customer\_continuous\_rows)

6. Extract row numbers- 10, 100 & 1000 & column numbers- 5, 10, 15 & store the result in

‘customer\_random\_data’

> View(customer\_continuous\_rows)

> customer\_churn[c(10,100,1000),c(5,10,15)] -> customer\_random\_data