10/16/2020 CDS501 Lab 1

CDS501 Lab 1

1. What is *phrase[-2]* ? What is *phrase[-5]*? Given those answers, explain what *phrase [-1:-3]* does

answer: from above example we can see that in R, negative indices drops particular elements rather than retaining it. So, phrase[-2] instructs the machine to drop the second element of the column "don't" while phrase[-5] specifies dropping the 5th column "know"

2. Use indexing of phrase to create a new character vector that forms the phrase "I know I dont"

answer:

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3. Use sum to calculate the summation from 1 to 5

```
In [8]: sum(1:5)
15
```

4. Use sum to calculate the summation from 1 to 10,000

answer:

```
In [9]: sum(1:10000)
50005000
```

5. What does seq do?

answer: the seq() function generates a sequence of numbers

```
In [10]: # example for seq()
    a <- seq(3, 9) # generate number from 3 to 9
a

3  4  5  6  7  8  9

In [11]: # another example
    b <- seq(-12, 12) #generate number from -12 to 12
    b

-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
    11 12</pre>
```