INFO6105-Assignment-1-Zihan Wan

EXERCISE-1

```
137 ## [your code here]
138
139 ## filter rows of Grad.Rate>=80: df4 <- filter(df,Grad.Rate>=80)
140 ## select columns of X and Grad.Rate: df5 <- select(df4,X,Grad.Rate)
141 ## arrange rows in descending order of Grad.Rate: df6 <- arrange(df5,desc(Grad.Rate))
142 ## put codes above together:
143 df6 <- arrange(select(filter(df,Grad.Rate>=80),X,Grad.Rate),desc(Grad.Rate))
144 ## view result
145 df6
```

```
216:13  (Untitled)
Console  Terminal
E:/NEU/INFO6105 Data Sci Eng Methods/Lab Files/RLab6105/
> df6 <- arrange(select(filter(df,Grad.Rate>=80),X,Grad.Rate),desc(Grad.Rate))
> df6
                            X Grad.Rate
1     James Madison University        98
2       Incarnate Word College        95
3     Johns Hopkins University        90
4      John Carroll University        89
5                Kenyon College        88
6                King's College        87
7           La Salle University        84
8 Illinois Wesleyan University        83
9               Juniata College        80
```

EXERCISE-2

```
205 ## [your code here]
206
207 ## group by Private in dataset 'df'
208 df7 <- group_by(df,Private)
209 ## summarise max and min tuition ("Outstate")
210 df7 <- summarise(df7,max=max(Outstate),min=min(Outstate))
211 ## view result
212 df7
213
214 ## group by Private in dataset 'college'
215 df8 <- group_by(college,Private)
216 ## summarise max and min tuition ("Outstate")
217 df8 <- summarise(df8,max=max(Outstate),min=min(Outstate))
218 ## view result
219 df8
```

```
222:1  (Untitled)
Console  Terminal
E:/NEU/INFO6105 Data Sci Eng Methods/Lab Files/RLab6105/
> df7 <- group_by(df,Private)
> df7 <- summarise(df7,max=max(Outstate),min=min(Outstate))
> df7
# A tibble: 2 x 3
  Private   max   min
  <fct>   <int> <int>
1 No       9766  3946
2 Yes     19240  6398
> df8 <- group_by(college,Private)
> df8 <- summarise(df8,max=max(Outstate),min=min(Outstate))
> df8
# A tibble: 2 x 3
  Private   max   min
  <fct>   <int> <int>
1 No      15732  2580
2 Yes     21700  2340
```