Question 2 (6 points)
Choose either Python or R for the entirety of this question.

Python:

A) Select the answer to complete the assigned task (2pts)

You have the following DataFrame `df`:

month	eggs	salt	spam
jan	47	12.0	17
feb	110	50.0	31
mar	221	89.0	72
apr	77	87.0	20
may	132	0.0	52
jun	205	60.0	55

Of the months April, May, and June, calculate how many had eggs>100

A) (df.loc[[‘apr’, ‘may’, ‘jun’],][‘eggs’] > 100).sum()
B) (df[[‘apr’, ‘may’, ‘jun’],][‘eggs’] > 100).sum()
C) (df[[‘apr’,’may’,’jun’]][‘eggs’] > 100).sum()
D) (df[(‘apr’, ‘may’, ‘jun’),][‘eggs’] > 100).count()

B) Complete the script to produce the output shown (2pts)

Output
datetime.date(2018, 1, 1)

Script
import datetime
datetime.datetime._____(‘01012018’, “%d%m%Y”)_____

A) strptime, .date()
B) strptime, .as.date()
C) to_date, [Nothing]
D) to_datetime, [Nothing]

C) Select the correct script to accomplish the task (2pts)

Following is a summary of the iris dataset:

```
> summary(iris)
  Sepal.Length    Sepal.Width     Petal.Length    Petal.Width          Species
 Min.   :4.300   Min.   :2.000   Min.   :1.000   Min.   :0.100   setosa    :50
 1st Qu.:5.100   1st Qu.:2.800   1st Qu.:1.600   1st Qu.:0.300   versicolor:50
 Median :5.800   Median :3.000   Median :4.350   Median :1.300   virginica :50
 Mean   :5.843   Mean   :3.057   Mean   :3.758   Mean   :1.199
 3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
 Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
>
```

How would you create a new object with:

- only the “setosa” species
- Petal.Width greater than 2
- Sorted by Sepal.Length in descending order

A) iris[(iris[‘Species’] == ‘setosa’) && (iris[‘Petal.Width’] > 2)].sort_values(‘Sepal.Length’, ascending = False)

B) iris.loc[(iris[‘Species’] == ‘setosa’) & (iris[‘Petal.Width’] > 2)].sort_values(‘Sepal.Length’, ascending = False)

C) iris.loc[(iris[‘Species’] == ‘setosa’) & (iris[‘Petal.Width’] > 2)].sort_values(‘Sepal.Length’, desc)

D) iris[(iris[‘Species’] == ‘setosa’) & (iris[‘Petal.Width’] > 2)].sort_descending(‘Sepal.Length’)