Python Practice 2

1. Read a csv file mydata.csv in python and save as pandas dataframe. For this you need to

import pandas as pd.

Then do

df = pd.read\_csv(filename)

1. Print df.head() to see the data. Also try printing a col using the dataframe. Format is df[‘M’]
2. Print df.size and df. shape to see the size and shape of the data
3. Convert the pandas dataframe to a list (which is an analog for array) using df.values.tolist()
4. Print the list, its len and the 1st row of the list
5. Save the first row as another list r1
6. Write a for loop to print element of the list r1 without using indices
7. Rewrite a for loop to print element of the list r1 using indices using the range function
8. Reverse the order of the elements printed in r1 without using indices
9. Reverse the order of the elements printed in r1 using indices
10. Print a box of 10x 10 \* using 2 nested for loops

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12.Modify the code for the square above to write a nested for loop that prints out a triangle with height 5 and width 5. Your output should look like this:

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1. (code to submit or demo) In a separate (.py or .ipynb) file,
2. read in the csv file country\_info.csv
3. Print the dataset and its shape and size
4. For each unique country (see below on how to do unique), print the following

COUNTRY NAME

* Mean salary
* Total sum of salaries
* Maximum salary
* Minimum salary
* Count of salaries
* Median salary
* Standard deviation of salaries
* Variance of salaries

To find the unique elements :

country\_list=dt['country'].tolist()

set\_res = set(country\_list)

print("The unique elements of the input list using set():\n")

country\_list = (list(set\_res))