Scores

Introduction:

This time you will create the data.

Evereise based on Chris Alben work, the credits belong to him

Exercise based on Chris Albon work, the credits belong to him.

Step 1. Import the necessary libraries

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns

//matplotlib inline
*matplotlib inline
```

Step 2. Create the DataFrame that should look like the one below.

Out[2]:		first_name	last_name	age	female	preTestScore	postTestScore
	0	Jason	Miller	42	0	4	25
	1	Molly	Jacobson	52	1	24	94
	2	Tina	Ali	36	1	31	57
	3	Jake	Milner	24	0	2	62
	4	Amy	Cooze	73	1	3	70

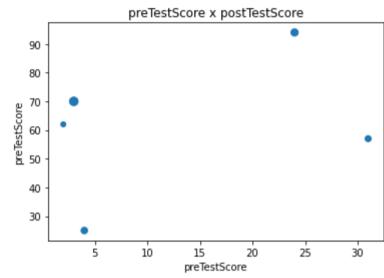
Step 3. Create a Scatterplot of preTestScore and postTestScore, with the size of each point determined by age

Hint: Don't forget to place the labels

```
plt.scatter(df.preTestScore, df.postTestScore, s=df.age)

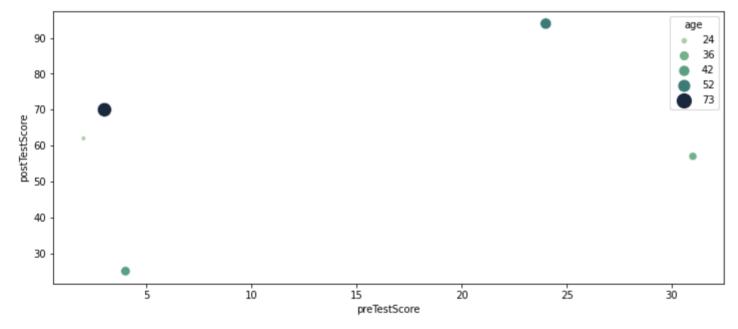
#set labels and titles
plt.title("preTestScore x postTestScore")
plt.xlabel('preTestScore')
plt.ylabel('preTestScore')
```

```
Out[3]: Text(0, 0.5, 'preTestScore')
```



```
plt.figure(figsize=(12,5))
sns.scatterplot(data=df, x="preTestScore", y="postTestScore", hue="age",palette="ch:r=-.5,l=.75",size="age",
sizes=(20, 200), legend="full")
```

Out[4]: <AxesSubplot:xlabel='preTestScore', ylabel='postTestScore'>



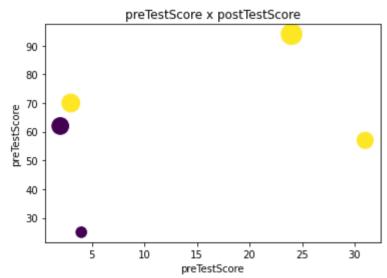
Step 4. Create a Scatterplot of preTestScore and postTestScore.

This time the size should be 4.5 times the postTestScore and the color determined by sex

```
plt.scatter(df.preTestScore, df.postTestScore, s= df.postTestScore * 4.5, c = df.female)

#set labels and titles
plt.title("preTestScore x postTestScore")
plt.xlabel('preTestScore')
plt.ylabel('preTestScore')
```

Out[5]: Text(0, 0.5, 'preTestScore')



```
plt.figure(figsize=(12,5))
sns.scatterplot(data=df, x="preTestScore", y="postTestScore", hue="female",palette="ch:r=-.5,l=.75",size="female",
sizes=(20, 200), legend="full")
```

Out[6]: <AxesSubplot:xlabel='preTestScore', ylabel='postTestScore'>

