Assignment 1 – Data Visualization

Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to visualize the mtcars.csv dataset with various plots.

Tasks To Be Performed:

1. Start off by importing the cars.csv file in the jupyter notebook.
2. Generate a line plot graph for the column 'model' and 'hp':

- a. Map the 'model' column on the x-axis
- b. Map the 'hp' column on the y-axis
- c. Provide the x-axis label as Models of the cars
- d. Provide the y-axis label as Horse-Power of Cars
- e. Set the title as Model Names vs HorsePower

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

df = pd.read_csv(r"csv files\cars-1.csv")
df.head()
```

	model	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
0	Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
1	Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
2	Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
3	Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
4	Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2

```python
plt.figure(figsize=(20,8))
sns.lineplot(data=df, x='model', y='hp')
plt.xticks(rotation=45)
plt.xlabel('Models of the cars')
plt.ylabel('Horse-Power of Cars')
plt.title('Model Names vs HorsePower')
plt.show()
```

Model Names vs HorsePower