In [68]:
```python
df_car = pd.get_dummies(df_car,columns=['aspiration'], drop_first=True)
```

In [69]:
```python
df_car.head()
```

Out[69]:

	num-of-doors	num-of-cylinders	engine-location	doors	cylinders	drive-wheels_4wd	drive-wheels_fwd	drive-wheels_rwd	aspiratio
0	two	four	front	2	4	False	False	True	
1	two	four	front	2	4	False	False	True	
2	two	six	front	2	6	False	False	True	
3	four	four	front	4	4	False	True	False	
4	four	five	front	4	5	True	False	False	

Challenge task:

In [71]:
```python
import pandas as pd

url = "imports-85.csv"
col_names = [
    'symboling', 'normalized-losses', 'make', 'fuel-type', 'aspiration',
    'num-of-doors', 'body-style', 'drive-wheels', 'engine-location',
    'wheel-base', 'length', 'width', 'height', 'curb-weight',
    'engine-type', 'num-of-cylinders', 'engine-size', 'fuel-system',
    'bore', 'stroke', 'compression-ratio', 'horsepower', 'peak-rpm',
    'city-mpg', 'highway-mpg', 'price'
]

df_car = pd.read_csv(url, sep=',', names=col_names, na_values="?", header=None)

df_car.columns = df_car.columns.str.strip()

df_car_subset = df_car[[
    'aspiration', 'num-of-doors', 'drive-wheels', 'num-of-cylinders',
    'engine-location', 'fuel-type'
]].copy()

print(df_car_subset.head())
```

```
   aspiration num-of-doors drive-wheels  num-of-cylinders  engine-location fuel-
type
0         two  convertible        front               130             88.6
std
1         two  convertible        front               130             88.6
std
2         two    hatchback        front               152             94.5
std
3        four        sedan        front               109             99.8
std
4        four        sedan        front               136             99.4
std
```

Congratulations!

You have completed this lab, and you can now end the lab by following the lab guide instructions.

```
In [75]: df_encoded = pd.get_dummies(df_car_subset, columns=['engine-location', 'fuel-typ

         # Display the final result
         print("Encoded Dataset (No Filtering):")
         print(df_encoded.head())
```

```
Encoded Dataset (No Filtering):
   aspiration num-of-doors drive-wheels  num-of-cylinders  engine-location_86.6
engine-location_88.4  engine-location_88.6  engine-location_89.5  engine-locati
on_91.3  engine-location_93.0  engine-location_93.1  engine-location_93.3  engi
ne-location_93.7  engine-location_94.3  engine-location_94.5  engine-location_9
5.1  engine-location_95.3  engine-location_95.7  engine-location_95.9  engine-l
ocation_96.0  engine-location_96.1  engine-location_96.3  engine-location_96.5
engine-location_96.6  engine-location_96.9  engine-location_97.0  engine-locati
on_97.2  engine-location_97.3  engine-location_98.4  engine-location_98.8  engi
ne-location_99.1  engine-location_99.2  engine-location_99.4  engine-location_9
9.5  engine-location_99.8  engine-location_100.4  engine-location_101.2  engine
-location_102.0  engine-location_102.4  engine-location_102.7  engine-location_
102.9  engine-location_103.3  engine-location_103.5  engine-location_104.3  eng
ine-location_104.5  engine-location_104.9  \
0      two  convertible      front               130                    False
False                True              False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False              False                    False
False                 False              False                    False
False                 False              False                    False
False
1      two  convertible      front               130                    False
False                True              False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False              False                    False
False                 False              False                    False
False                 False              False                    False
False
2      two    hatchback      front               152                    False
False                False             False                   False
False                False             False                   False
False                True              False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False              False                    False
False                 False              False                    False
False                 False              False                    False
False
3      four       sedan      front               109                    False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                False             False                   False
False                True               False                    False
False                 False              False                    False
```

```
       False              False              False              False
       False
       4      four      sedan      front              136              False
       False              False              False              False
       False              False              False              False
       False              False              False              False
       False              False              False              False
       False              False              False              False
       False              False              False              False
       False              False              False              True
       False              False              False              False
       False              False              False              False
       False              False              False              False
       False

         engine-location_105.8  engine-location_106.7  engine-location_107.9  engine-
       location_108.0  engine-location_109.1  engine-location_110.0  engine-location_1
       12.0  engine-location_113.0  engine-location_114.2  engine-location_115.6  engi
       ne-location_120.9  fuel-type_std  fuel-type_turbo
       0                  False              False              False
       False              False              False              False
       False              False              False              False
       True          False
       1                  False              False              False
       False              False              False              False
       False              False              False              False
       True          False
       2                  False              False              False
       False              False              False              False
       False              False              False              False
       True          False
       3                  False              False              False
       False              False              False              False
       False              False              False              False
       True          False
       4                  False              False              False
       False              False              False              False
       False              False              False              False
       True          False
```

In [ ]:

In [ ]: