```
In [1]: import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
        import scipy as sp
```

In [2]: | df = pd.read_csv(r"C:\Users\robin\Desktop\output.csv") df.head()

Out[2]:

	Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Colum
0	3	?	alfa- romero	gas	std	two	convertible	rwd	fr
1	3	?	alfa- romero	gas	std	two	convertible	rwd	fr
2	1	?	alfa- romero	gas	std	two	hatchback	rwd	fr
3	2	164	audi	gas	std	four	sedan	fwd	fr
4	2	164	audi	gas	std	four	sedan	4wd	fr

5 rows × 26 columns

In [3]: headers = ["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.columns=headers

df.head()

Out[3]:

	symboling	normalized- losses	make	fuel- type	aspiration	num- of- doors	body- style	drive- wheels	engine- location	wh k
0	3	?	alfa- romero	gas	std	two	convertible	rwd	front	
1	3	?	alfa- romero	gas	std	two	convertible	rwd	front	
2	1	?	alfa- romero	gas	std	two	hatchback	rwd	front	
3	2	164	audi	gas	std	four	sedan	fwd	front	
4	2	164	audi	gas	std	four	sedan	4wd	front	

5 rows × 26 columns

```
In [7]: data = df
    data.isna().any()
    data.isnull().any()
```

Out[7]:	symboling	False
	normalized-losses	False
	make	False
	fuel-type	False
	aspiration	False
	num-of-doors	False
	body-style	False
	drive-wheels	False
	engine-location	False
	wheel-base	False
	length	False
	width	False
	height	False
	curb-weight	False
	engine-type	False
	num-of-cylinders	False
	engine-size	False
	fuel-system	False
	bore	False
	stroke	False
	compression-ratio	False
	horsepower	False
	peak-rpm	False
	city-mpg	False
	highway-mpg	False
	price	False
	dtype: bool	

```
data['city-mpg'] = 235/df['city-mpg']
        data.rename(columns = {'city_mpg': "city-L/ 100km"}, inplace = True)
        print(data.columns)
        data.dtypes
        Index(['symboling', 'normalized-losses', 'make', 'fuel-type', 'aspiratio
                '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', 'strok
        е',
                'compression-ratio', 'horsepower', 'peak-rpm', 'city-mpg',
                'highway-mpg', 'price'],
              dtype='object')
Out[8]: symboling
                                int64
        normalized-losses
                               object
        make
                               object
        fuel-type
                               object
        aspiration
                               object
        num-of-doors
                               object
        body-style
                               object
        drive-wheels
                               object
        engine-location
                              object
        wheel-base
                              float64
        length
                              float64
        width
                              float64
        height
                              float64
        curb-weight
                                int64
                               object
        engine-type
        num-of-cylinders
                               object
                                int64
        engine-size
        fuel-system
                               object
        bore
                               object
                               object
        stroke
        compression-ratio
                              float64
        horsepower
                               object
                               object
        peak-rpm
                              float64
        city-mpg
                                int64
        highway-mpg
        price
                               object
        dtype: object
```

```
In [9]: data.price.unique()
    data = data[data.price != '?']
    data.dtypes
```

Out[9]: symboling int64 normalized-losses object make object fuel-type object aspiration object num-of-doors object body-style object drive-wheels object engine-location object wheel-base float64 float64 length width float64 height float64 curb-weight int64 engine-type object num-of-cylinders object engine-size int64 fuel-system object object bore stroke object compression-ratio float64 object horsepower peak-rpm object city-mpg float64 int64 highway-mpg price object dtype: object

```
In [10]: data.price.unique()
```

```
'41315', '36880', '5151', '6295', '6575', '5572', '6377', '7957',
                                                             '6229', '6692', '7609', '8558', '8921', '12964', '6479', '6855', '5399', '6529', '7129', '7295', '7895', '9095', '8845', '10295',
                                                             '12945',
                                                                                           '10345', '6785', '11048', '32250', '35550', '36000',
                                                                                          '6095', '6795', '6695', '7395', '10945', '11845', '13645',
                                                             '15645', '8495', '10595', '10245', '10795', '11245', '18280',
                                                            '18344', '25552', '28248', '28176', '31600', '34184', '35056', '40960', '45400', '16503', '5389', '6189', '6669', '7689', '9959', '8499', '12629', '14869', '14489', '6989', '8189', '9279', '5499', '76000', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', '7689', 
                                                                                    , '6649', '6849', '7349', '7299', '7799', '7499', '7999',
                                                             '8249', '8949', '9549', '13499', '14399', '17199', '19699',
                                                             '18399', '11900', '13200', '12440', '13860', '15580', '16900', '16695', '17075', '16630', '17950', '18150', '12764', '22018',
                                                            '32528', '34028', '37028', '9295', '9895', '11850', '12170', '15040', '15510', '18620', '5118', '7053', '7603', '7126', '7775', '9960', '9233', '11259', '7463', '10198', '8013', '11694', '5348', '6338', '6488', '6918', '7898', '8778', '6938', '7198', '7788', '7738', '8358', '9258', '8058', '8238', '9298', '9538', '8449', '9639', '9989', '11199', '11549', '17669', '8948', '10698', '998
                                  8',
                                                             '10898', '11248', '16558', '15998', '15690', '15750', '7975',
                                                             '7995', '8195', '9495', '9995', '11595', '9980', '13295', '13845', '12290', '12940', '13415', '15985', '16515', '18420', '18950',
                                                              '16845', '19045', '21485', '22470', '22625'], dtype=object)
```

```
In [11]:
         data['length'] = data['length']/data['length'].max()
         data['width'] = data['width']/data['width'].max()
         data['height'] = data['height']/data['height'].max()
         bins = np.linspace(min(data['price']), max (data['price']), 4)
         group_names = ['Low', 'Medium', 'High']
         data['price-binned'] = pd.cut(data['price'], bins,
                                      labels = group_names,
                                      include lowest= True)
         print(data['price-binned'])
         plt.hist(data['price-binned'])
         plt.show()
         C:\Users\robin\AppData\Local\Temp\ipykernel_15956\3639073924.py:1: Settin
         gWithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row_indexer,col_indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['length'] = data['length']/data['length'].max()
         C:\Users\robin\AppData\Local\Temp\ipykernel 15956\3639073924.py:2: Settin
         gWithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row_indexer,col_indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['width'] = data['width']/data['width'].max()
         C:\Users\robin\AppData\Local\Temp\ipykernel 15956\3639073924.py:3: Settin
         gWithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row indexer,col indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['height'] = data['height']/data['height'].max()
```

```
Traceback (most recent call las
UFuncTypeError
t)
Cell In[11], line 5
      2 data['width'] = data['width']/data['width'].max()
      3 data['height'] = data['height']/data['height'].max()
----> 5 bins = np.linspace(min(data['price']), max (data['price']), 4)
      7 group_names = ['Low', 'Medium', 'High']
      8 data['price-binned'] = pd.cut(data['price'], bins,
                                     labels = group_names,
     10
                                     include_lowest= True)
File <__array_function__ internals>:180, in linspace(*args, **kwargs)
File ~\anaconda3\lib\site-packages\numpy\core\function_base.py:127, in li
nspace(start, stop, num, endpoint, retstep, dtype, axis)
    123 div = (num - 1) if endpoint else num
    125 # Convert float/complex array scalars to float, gh-3504
    126 # and make sure one can use variables that have an __array_interf
ace__, gh-6634
--> 127 start = asanyarray(start) * 1.0
    128 stop = asanyarray(stop) * 1.0
    130 dt = result_type(start, stop, float(num))
UFuncTypeError: ufunc 'multiply' did not contain a loop with signature ma
tching types (dtype('<U5'), dtype('float64')) -> None
```

```
data['length'] = data['length']/data['length'].max()
In [12]:
         data['width'] = data['width']/data['width'].max()
         data['height'] = data['height']/data['height'].max()
         # binning- grouping values
         bins = np.linspace(min(data['price']), max(data['price']), 4)
         group_names = ['Low', 'Medium', 'High']
         data['price-binned'] = pd.cut(data['price'], bins,
                                     labels = group_names,
                                     include lowest = True)
         print(data['price-binned'])
         plt.hist(data['price-binned'])
         plt.show()
         C:\Users\robin\AppData\Local\Temp\ipykernel_15956\923714955.py:1: Setting
         WithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row_indexer,col_indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['length'] = data['length']/data['length'].max()
         C:\Users\robin\AppData\Local\Temp\ipykernel_15956\923714955.py:2: Setting
         WithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row_indexer,col_indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['width'] = data['width']/data['width'].max()
         C:\Users\robin\AppData\Local\Temp\ipykernel 15956\923714955.py:3: Setting
         WithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row_indexer,col_indexer] = value instead
         See the caveats in the documentation: https://pandas.pydata.org/pandas-do
         cs/stable/user guide/indexing.html#returning-a-view-versus-a-copy (http
         s://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#returni
         ng-a-view-versus-a-copy)
           data['height'] = data['height']/data['height'].max()
```

```
Traceback (most recent call las
         UFuncTypeError
         t)
         Cell In[12], line 6
               3 data['height'] = data['height']/data['height'].max()
               5 # binning- grouping values
         ---> 6 bins = np.linspace(min(data['price']), max(data['price']), 4)
               7 group_names = ['Low', 'Medium', 'High']
               8 data['price-binned'] = pd.cut(data['price'], bins,
                                                                          labels =
         group_names,
                                                                          include 1
              10
         owest = True)
         File <__array_function__ internals>:180, in linspace(*args, **kwargs)
         File ~\anaconda3\lib\site-packages\numpy\core\function_base.py:127, in li
         nspace(start, stop, num, endpoint, retstep, dtype, axis)
             123 div = (num - 1) if endpoint else num
             125 # Convert float/complex array scalars to float, gh-3504
             126 # and make sure one can use variables that have an __array_interf
         ace__, gh-6634
         --> 127 start = asanyarray(start) * 1.0
             128 stop = asanyarray(stop) * 1.0
             130 dt = result_type(start, stop, float(num))
         UFuncTypeError: ufunc 'multiply' did not contain a loop with signature ma
         tching types (dtype('<U5'), dtype('float64')) -> None
In [14]: |pip install upgrade pip setuptools wheel
         pip install bertopic --no-cache-dir
         pip uninstall hdbscan -y
         pip install hdbscan --no-cache-dir --no-binary :all: --no-build-isolation
           Cell In[14], line 1
             pip install upgrade pip setuptools wheel
         SyntaxError: invalid syntax
```

In [15]: # categorical to numerical variables
 pd.get_dummies(data['fuel-type']).head()

descriptive analysis
 # NaN are skipped
 data.describe()

Out[15]:

	symboling	wheel- base	length	width	height	curb-weight	engine- size
count	201.000000	201.000000	201.000000	201.000000	201.000000	201.000000	201.000000
mean	0.840796	98.797015	0.837102	0.915126	0.899108	2555.666667	126.875622
std	1.254802	6.066366	0.059213	0.029187	0.040933	517.296727	41.546834
min	-2.000000	86.600000	0.678039	0.837500	0.799331	1488.000000	61.000000
25%	0.000000	94.500000	0.801538	0.890278	0.869565	2169.000000	98.000000
50%	1.000000	97.000000	0.832292	0.909722	0.904682	2414.000000	120.000000
75%	2.000000	102.400000	0.881788	0.925000	0.928094	2926.000000	141.000000
max	3.000000	120.900000	1.000000	1.000000	1.000000	4066.000000	326.000000
4							•

```
In [16]: # examples of box plot
plt.boxplot(data['price'])

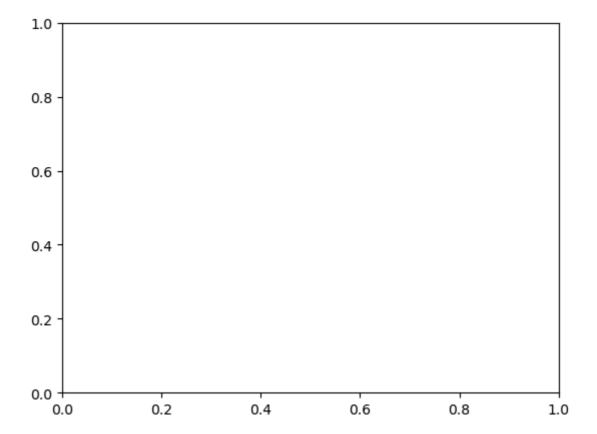
# by using seaborn
sns.boxplot(x ='drive-wheels', y ='price', data = data)

# Predicting price based on engine size
# Known on x and predictable on y
plt.scatter(data['engine-size'], data['price'])
plt.title('Scatterplot of Enginesize vs Price')
plt.xlabel('Engine size')
plt.ylabel('Price')
plt.grid()
plt.show()
```

```
Traceback (most recent call las
TypeError
t)
Cell In[16], line 2
      1 # examples of box plot
----> 2 plt.boxplot(data['price'])
      4 # by using seaborn
      5 sns.boxplot(x ='drive-wheels', y ='price', data = data)
File ~\anaconda3\lib\site-packages\matplotlib\pyplot.py:2456, in boxplot
(x, notch, sym, vert, whis, positions, widths, patch_artist, bootstrap, u
sermedians, conf intervals, meanline, showmeans, showcaps, showbox, showf
liers, boxprops, labels, flierprops, medianprops, meanprops, capprops, wh
iskerprops, manage_ticks, autorange, zorder, capwidths, data)
   2446 @_copy_docstring_and_deprecators(Axes.boxplot)
   2447 def boxplot(
                x, notch=None, sym=None, vert=None, whis=None,
   2448
   (\ldots)
   2454
                whiskerprops=None, manage_ticks=True, autorange=False,
   2455
                zorder=None, capwidths=None, *, data=None):
            return gca().boxplot(
-> 2456
   2457
                x, notch=notch, sym=sym, vert=vert, whis=whis,
   2458
                positions=positions, widths=widths, patch_artist=patch_ar
tist,
   2459
                bootstrap=bootstrap, usermedians=usermedians,
                conf_intervals=conf_intervals, meanline=meanline,
   2460
   2461
                showmeans=showmeans, showcaps=showcaps, showbox=showbox,
                showfliers=showfliers, boxprops=boxprops, labels=labels,
   2462
                flierprops=flierprops, medianprops=medianprops,
   2463
                meanprops=meanprops, capprops=capprops,
   2464
                whiskerprops=whiskerprops, manage_ticks=manage_ticks,
   2465
                autorange=autorange, zorder=zorder, capwidths=capwidths,
   2466
   2467
                **({"data": data} if data is not None else {}))
File ~\anaconda3\lib\site-packages\matplotlib\__init__.py:1442, in _prepr
ocess data.<locals>.inner(ax, data, *args, **kwargs)
   1439 @functools.wraps(func)
   1440 def inner(ax, *args, data=None, **kwargs):
            if data is None:
   1441
-> 1442
                return func(ax, *map(sanitize_sequence, args), **kwargs)
            bound = new_sig.bind(ax, *args, **kwargs)
   1444
   1445
            auto_label = (bound.arguments.get(label_namer)
   1446
                          or bound.kwargs.get(label namer))
File ~\anaconda3\lib\site-packages\matplotlib\axes\ axes.py:3914, in Axe
s.boxplot(self, x, notch, sym, vert, whis, positions, widths, patch_artis
t, bootstrap, usermedians, conf_intervals, meanline, showmeans, showcaps,
showbox, showfliers, boxprops, labels, flierprops, medianprops, meanprop
s, capprops, whiskerprops, manage_ticks, autorange, zorder, capwidths)
   3911 if bootstrap is None:
            bootstrap = mpl.rcParams['boxplot.bootstrap']
   3912
-> 3914 bxpstats = cbook.boxplot_stats(x, whis=whis, bootstrap=bootstrap,
   3915
                                       labels=labels, autorange=autorang
e)
   3916 if notch is None:
            notch = mpl.rcParams['boxplot.notch']
File ~\anaconda3\lib\site-packages\matplotlib\cbook\__init__.py:1232, in
boxplot_stats(X, whis, bootstrap, labels, autorange)
   1229 x = np.asarray(x)
```

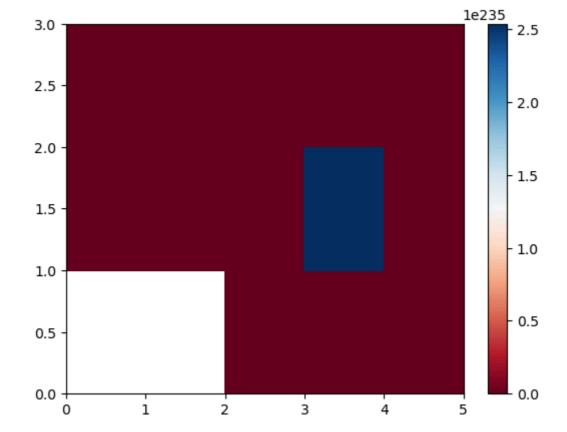
```
1231 # arithmetic mean
-> 1232 stats['mean'] = np.mean(x)
   1234 # medians and quartiles
   1235 q1, med, q3 = np.percentile(x, [25, 50, 75])
File <__array_function__ internals>:180, in mean(*args, **kwargs)
File ~\anaconda3\lib\site-packages\numpy\core\fromnumeric.py:3432, in mea
n(a, axis, dtype, out, keepdims, where)
   3429
            else:
                return mean(axis=axis, dtype=dtype, out=out, **kwargs)
   3430
-> 3432 return _methods._mean(a, axis=axis, dtype=dtype,
                              out=out, **kwargs)
File ~\anaconda3\lib\site-packages\numpy\core\_methods.py:192, in _mean
(a, axis, dtype, out, keepdims, where)
                ret = ret.dtype.type(ret / rcount)
    191 else:
--> 192
            ret = ret / rcount
    194 return ret
```

TypeError: ufunc 'divide' not supported for the input types, and the input ts could not be safely coerced to any supported types according to the casting rule ''safe''



Out[17]:

	drive-wheels	body-style	price
0	4wd	hatchback	7.603000e+03
1	4wd	sedan	5.816974e+12
2	4wd	wagon	2.003279e+16
3	fwd	convertible	1.159500e+04
4	fwd	hardtop	8.249000e+03
5	fwd	hatchback	1.051353e+204
6	fwd	sedan	2.536391e+235
7	fwd	wagon	1.576741e+50
8	rwd	convertible	2.699033e+23
9	rwd	hardtop	4.025208e+31
10	rwd	hatchback	9.166728e+84
11	rwd	sedan	4.563936e+174
12	rwd	wagon	3.138680e+43

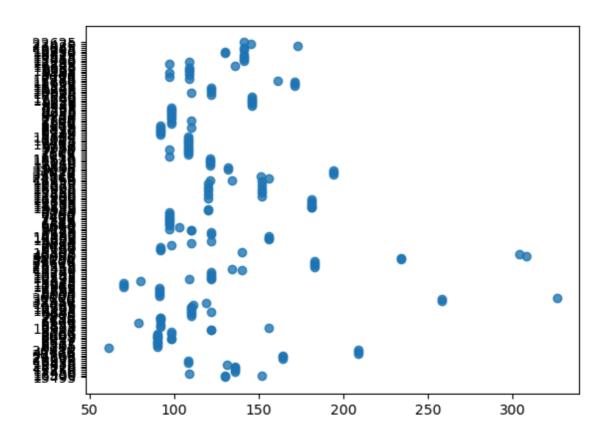


```
In [20]:
         # Analysis of Variance- ANOVA
         # returns f-test and p-value
         # f-test = variance between sample group means divided by
         # variation within sample group
         # p-value = confidence degree
         data_annova = data[['make', 'price']]
         grouped_annova = data_annova.groupby(['make'])
         annova_results_1 = sp.stats.f_oneway(
                                     grouped_annova.get_group('honda')['price'],
                                     grouped_annova.get_group('subaru')['price']
         print(annova_results_1)
         # strong corealtion between a categorical variable
         # if annova test gives large f-test and small p-value
         # Correlation- measures dependency, not causation
         sns.regplot(x ='engine-size', y ='price', data = data)
         plt.ylim(0, )
```

F_onewayResult(statistic=0.19744030127462606, pvalue=0.6609478240622193)

```
Traceback (most recent call las
TypeError
t)
Cell In[20], line 18
     12 print(annova_results_1)
     14 # strong corealtion between a categorical variable
     15 # if annova test gives large f-test and small p-value
     16
     17 # Correlation- measures dependency, not causation
---> 18 sns.regplot(x ='engine-size', y ='price', data = data)
     19 plt.ylim(0, )
File ~\anaconda3\lib\site-packages\seaborn\regression.py:759, in regplot
(data, x, y, x_estimator, x_bins, x_ci, scatter, fit_reg, ci, n_boot, uni
ts, seed, order, logistic, lowess, robust, logx, x_partial, y_partial, tr
uncate, dropna, x_jitter, y_jitter, label, color, marker, scatter_kws, li
ne_kws, ax)
    757 scatter_kws["marker"] = marker
    758 line_kws = {} if line_kws is None else copy.copy(line_kws)
--> 759 plotter.plot(ax, scatter_kws, line_kws)
    760 return ax
File ~\anaconda3\lib\site-packages\seaborn\regression.py:368, in _Regress
ionPlotter.plot(self, ax, scatter_kws, line_kws)
            self.scatterplot(ax, scatter_kws)
    367 if self.fit_reg:
--> 368
            self.lineplot(ax, line_kws)
    370 # Label the axes
    371 if hasattr(self.x, "name"):
File ~\anaconda3\lib\site-packages\seaborn\regression.py:413, in Regress
ionPlotter.lineplot(self, ax, kws)
    411 """Draw the model."""
    412 # Fit the regression model
--> 413 grid, yhat, err_bands = self.fit_regression(ax)
    414 edges = grid[0], grid[-1]
    416 # Get set default aesthetics
File ~\anaconda3\lib\site-packages\seaborn\regression.py:219, in _Regress
ionPlotter.fit_regression(self, ax, x_range, grid)
    217
            yhat, yhat_boots = self.fit_logx(grid)
    218 else:
--> 219
            yhat, yhat boots = self.fit fast(grid)
    221 # Compute the confidence interval at each grid point
    222 if ci is None:
File ~\anaconda3\lib\site-packages\seaborn\regression.py:236, in _Regress
ionPlotter.fit fast(self, grid)
    234 X, y = np.c [np.ones(len(self.x)), self.x], self.y
    235 grid = np.c_[np.ones(len(grid)), grid]
--> 236 yhat = grid.dot(reg_func(X, y))
    237 if self.ci is None:
    238
            return yhat, None
File ~\anaconda3\lib\site-packages\seaborn\regression.py:232, in _Regress
ionPlotter.fit fast.<locals>.reg func( x, y)
    231 def reg_func(_x, _y):
--> 232
            return np.linalg.pinv(_x).dot(_y)
```

TypeError: can't multiply sequence by non-int of type 'float'



In []: