**1.** What task do the following lines of code perform?

1 avg=df['bore'].mean(axis=0)

2 df['bore'].replace(np.nan, avg, inplace= True)

3

* calculate the mean value for the **'bore'** column and replace all the NaN values of that column by the mean value
* nothing; because the parameter **inplace** is not set to true
* 'horsepower'

**2.** How would you rename column name from **"highway-mpg"** to **"highway-L/100km"**?

1

2 df.rename(columns={'"highway-mpg"':'highway-L/100km'}, inplace=True)

3

1

2 rename(df,columns={'"highway-mpg"':'highway-L/100km'})

3

**3.** What data type is the following set of numbers? **666, 1.1,232,23.12**

* int
* float
* object

**4.** The following code is an example of:

1 (df["length"]-df["length"].mean())/df["length"].std()

2

* simple feature scaling
* min-max scaling
* z-score

**5.** Consider the two columns 'horsepower', and 'horsepower-binned'; from the dataframe **df**; how many categories are there in the 'horsepower-binned' column?

