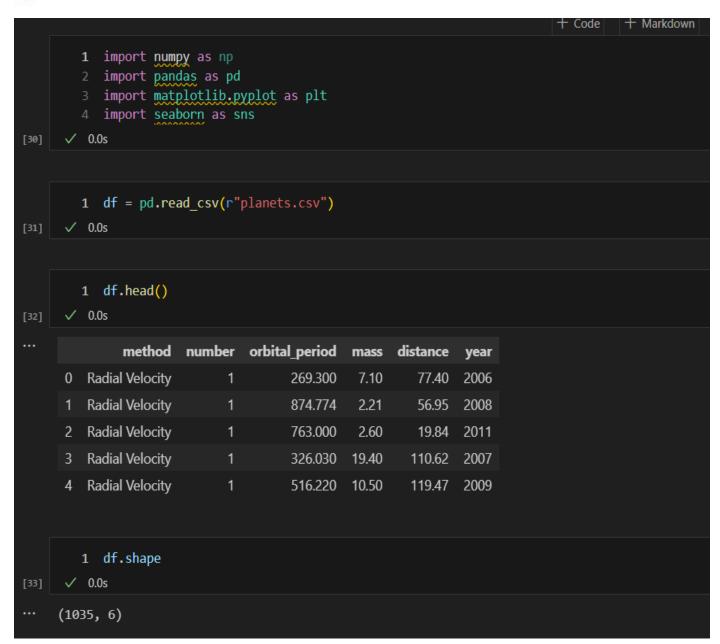
Q. The Planets dataset contains details about the 1,000+ extrasolar planets discovered up to 2014. Visualize the distribution of the masses of the planets (expressed as a multiple of the mass of Jupiter), using a histogram and a box plot. Make appropriate modifications to the chart title, axis titles, legend, figure size, font size, colors etc. to make the chart readable and visually appealing.

=>



```
1 df.info()
     ✓ 0.0s
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 1035 entries, 0 to 1034
    Data columns (total 6 columns):
     # Column
                   Non-Null Count Dtype
                 1035 non-null object
1035 non-null int64
     0 method
     1 number
     2 orbital_period 992 non-null float64
                       513 non-null float64
       mass
     4 distance
                       808 non-null
                                      float64
                       1035 non-null int64
         year
    dtypes: float64(3), int64(2), object(1)
    memory usage: 48.6+ KB
       1 df.isnull().sum()
    ✓ 0.0s
    method
    number
                       0
    orbital_period
                      43
                      522
    mass
    distance
                      227
    year
                       0
    dtype: int64
       1 import warnings
       2 warnings.filterwarnings("ignore")
   ✓ 0.0s
       1 df['orbital_period'].fillna(df['orbital_period'].mean(),inplace=True) 
     ✓ 0.0s
       1 df['mass'].fillna(df['mass'].mean(),inplace=True)
     ✓ 0.0s
       1 df['distance'].fillna(df['distance'].mean(),inplace=True)
     ✓ 0.0s
       1 df.isnull().sum()
[40]
    ✓ 0.0s
    method
                      0
    number
                      0
    orbital period
                      0
    mass
                      0
    distance
                      0
    year
                      0
    dtype: int64
```

