Q2 OUTPUT :

Total no : of missing values

```
Python 3.9.5 (tags/v3.9.5:0a7dcbd, May  3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
============ RESTART: C:/Users/karri/OneDrive/Desktop/AI TASKS/Q2.py ===========
Id              0
MSSubClass      0
MSZoning        0
LotFrontage     14
LotArea         0
Street          0
Alley           93
LotShape        0
LandContour     0
Utilities       0
LotConfig       0
LandSlope       0
Neighborhood    0
Condition1      0
Condition2      0
BldgType        0
HouseStyle      0
OverallQual     0
OverallCond     0
YearBuilt       0
YearRemodAdd    0
RoofStyle       0
RoofMatl        0
Exterior1st     0
Exterior2nd     0
MasVnrType      0
MasVnrArea      0
ExterQual       0
ExterCond       0
Foundation      0
BsmtQual        3
BsmtCond        3
BsmtExposure    3
BsmtFinType1    3
BsmtFinSF1      0
BsmtFinType2    3
dtype: int64
Total number of missing values:  122
>>> |
```

After all nill values are filled :

```
Id                 0
MSSubClass         0
MSZoning           0
LotFrontage        0
LotArea            0
Street             0
Alley              0
LotShape           0
LandContour        0
Utilities          0
LotConfig          0
LandSlope          0
Neighborhood       0
Condition1         0
Condition2         0
BldgType           0
HouseStyle         0
OverallQual        0
OverallCond        0
YearBuilt          0
YearRemodAdd       0
RoofStyle          0
RoofMatl           0
Exterior1st        0
Exterior2nd        0
MasVnrType         0
MasVnrArea         0
ExterQual          0
ExterCond          0
Foundation         0
BsmtQual           0
BsmtCond           0
BsmtExposure       0
BsmtFinType1       0
BsmtFinSF1         0
BsmtFinType2       0
dtype: int64
>>>
```

<mark>Q3 OUTPUT :</mark>

Python has tools for almost every aspect of scientific computing. The Bank of America uses Python to crunch its financial data and Facebook looks upon the Python library Pandas for its data analysis. While there are many libraries available to perform data analysis in Python, here are a few: NumPy, SciPy, Pandas and Matplotlib.

Words with atleast 6 letters

```
Python
almost
aspect
scientific
computing
America
Python
crunch
financial
Facebook
Python
library
Pandas
analysis
libraries
available
perform
analysis
Python
Pandas
Matplotlib
>>>
```

```
most frequently used word: python
count: 4
>>>
```

Q4 OUTPUT :

After sorting all items according to rating :

```
    ProductID  price  rating
0   B005P0HHGK    170    0.1
1   B000JEHAHS    133    0.12
2   B0001PB9FY    183    0.19
3   B005DUM9UQ    138    0.24
4   B002GWHC0G    165    0.26
..         ...    ...    ...
94  B002SRYRE8    189    4.67
95  B00374XSVY    120    4.7
96  B002TDK0VK    196    4.8
97  B0037ZFEW4    117    4.85
98  B003YDP5PA    169    4.98
```