

COGNIZANCE

TASK – 6 [Python – Mediocre Level]

OUTPUT SCREENSHOTS:

Ques1.py

```
----- Modified Content of the text file -----
1,Aaa,3.5,Maths
2,Bbb,4.2,Physics
3,Ccc,7.62,Chemistry
4,Ddd,9.55,Biology
5,Eee,4.0,Social
6,Fff,7.6,English
7,Ggg,3.111,Maths
8,Hhh,9.99,Physics
9,Iii,1.23,Civics
```

Ques2.py

```
-----OLD CSV FILE WITH NaN AND NULL VALUES-----
   Id  MSSubClass  MSZoning  LotFrontage  LotArea  Street  Alley  ...  Foundation  BsmtQual  BsmtCond  BsmtExposure  BsmtFinType1  BsmtFinSF1  BsmtFinType2
0    1         60      RL         65.0      8450    Pave   NaN    ...    PConc       Gd       TA           No          GLQ          786        Unf
1    2         20      RL         80.0      9600    Pave   NaN    ...    CBlock     Gd       TA           Gd          ALQ          978        Unf
2    3         60      RL         68.0     11250    Pave   NaN    ...    PConc       Gd       TA           Mn          GLQ          486        Unf
3    4         70      RL         60.0      9550    Pave   NaN    ...    BrkTil     TA       Gd           No          ALQ          216        Unf
4    5         60      RL         84.0     14260    Pave   NaN    ...    PConc       Gd       TA           Av          GLQ          655        Unf
..  ..         ...    ...         ...      ...    ...    ...    ...    ...    ...    ...    ...    ...    ...
94  95         60      RL         69.0      9337    Pave   NaN    ...    PConc       Gd       TA           No          GLQ          648        Unf
95  96         60      RL         NaN      9765    Pave   NaN    ...    PConc       Gd       Gd           No          ALQ          310        Unf
96  97         20      RL         78.0     10264    Pave   NaN    ...    PConc       Gd       TA           Av          ALQ         1162        Unf
97  98         20      RL         73.0     10921    Pave   NaN    ...    CBlock     TA       TA           No          Rec          520        Unf
98  99         30      RL         85.0     10625    Pave   NaN    ...    BrkTil     TA       TA           No          ALQ          108        Unf

[99 rows x 36 columns]

-----NUMBER OF NULL VALUES IN EACH COLUMNS-----
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
```

```
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
```

```
-----NEW CSV FILE WITH NULL VALUES FILLED WITH ZEROES-----
   Id  MSSubClass  MSZoning  LotFrontage  LotArea  Street  Alley  ...  Foundation  BsmtQual  BsmtCond  BsmtExposure  BsmtFinType1  BsmtFinSF1  BsmtFinType2
0    1           60      RL           65.0    8450    Pave    0  ...      PConc       Gd       TA           No           GLQ           786         Unf
1    2           20      RL           80.0    9600    Pave    0  ...      CBlock       Gd       TA           Gd           ALQ           978         Unf
2    3           60      RL           68.0   11250    Pave    0  ...      PConc       Gd       TA           Mn           GLQ           486         Unf
3    4           70      RL           60.0    9550    Pave    0  ...      BrkTil       TA       Gd           No           ALQ           216         Unf
4    5           60      RL           84.0   14260    Pave    0  ...      PConc       Gd       TA           Av           GLQ           655         Unf
..  ..          ...      ...           ...     ...     ...    ...  ...      ...      ...      ...      ...      ...      ...      ...
94   95           60      RL           69.0    9337    Pave    0  ...      PConc       Gd       TA           No           GLQ           648         Unf
95   96           60      RL           0.0    9765    Pave    0  ...      PConc       Gd       Gd           No           ALQ           310         Unf
96   97           20      RL           78.0   18264    Pave    0  ...      PConc       Gd       TA           Av           ALQ          1162         Unf
97   98           20      RL           73.0   18921    Pave    0  ...      CBlock       TA       TA           No           Rec           520         Unf
98   99           30      RL           85.0   18625    Pave    0  ...      BrkTil       TA       TA           No           ALQ           108         Unf
```

[99 rows x 36 columns]

```
-----NUMBER OF NULL VALUES IN EACH COLUMNS (UPDATED)-----
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
```

Ques3.py

Frequency of the words having atleast six letters

```
{'Python': 3, 'almost': 1, 'aspect': 1, 'scientific': 1, 'computing.': 1, 'America': 1, 'crunch': 1, 'financial': 1, 'Facebook': 1, 'library': 1, 'Pandas': 2, 'analysis.': 1, 'libraries': 1, 'available': 1, 'perform': 1, 'analysis': 1, 'Python,': 1, 'NumPy,': 1, 'SciPy,': 1}
```

The most frequently used 6 lettered word in this file: Python