```
3
               In [32]: import seaborn as sb
data=sb.load_dataset('iris')
               In [34]: data.shape
               Out[34]: (150, 5)
               In [36]: print(len(data))
                         150
               In [38]: data.head(10)
               Out[38]:
                            sepal_length sepal_width petal_length petal_width species
                         0 5.1
                                          3.5
                                                     1.4
                                                                     0.2
                                                                          setosa
                          1
                                    4.9
                                               3.0
                                                          1.4
                                                                     0.2
                                                                          setosa
                          2
                                    4.7
                                              3.2
                                                          1.3
                                                                    0.2
                                                                          setosa
                          3
                                             3.6
                                                                   0.2 setosa
                                    5.4
                                               3.9
                                                          1.7
                                                                     0.4 setosa
                                    4.6
                                               3.4
                                                          1.4
                                                                   0.3 setosa
                                    5.0
                                               3.4
                                                          1.5
                                                                     0.2 setosa
                                    4.4
                                               2.9
                                                          1.4
                                                                   0.2 setosa
                                    4.9
                                               3.1
                                                          1.5
                                                                    0.1 setosa
```

5

8

```
2 X 54 = 108

2 X 55 = 110

2 X 56 = 112

2 X 57 = 114

2 X 58 = 116

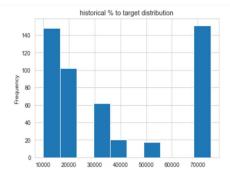
2 X 59 = 118

2 X 60 = 120

2 X 61 = 122

2 X 62 = 124

2 X 63 = 126
```



```
In [95]: df['Commission_Rate']=df['Percentage_to_target'].apply(calc_commission_rate)
```

In [97]: df.head(10)

Out[97]:

	Percentage_to_target	Sales_target	Sales	Commission_Rate
0	0.99	75000	74250.0	0.02
1	0.86	10000	8600.0	0.02
2	1.15	20000	23000.0	0.02
3	0.85	20000	17000.0	0.02
4	1.03	20000	20600.0	0.02
5	0.86	20000	17200.0	0.02
6	1.08	30000	32400.0	0.02
7	0.99	10000	9900.0	0.02
8	0.94	10000	9400.0	0.02
9	0.85	20000	17000.0	0.02

```
In [4]: pip install seaborn
         Requirement already satisfied: seaborn in c:\users\chaub\anaconda3\lib\site-packages (0.11.1)
Requirement already satisfied: scipy>=1.0 in c:\users\chaub\anaconda3\lib\site-packages (from seaborn) (1.6.2)
Requirement already satisfied: numpy>=1.15 in c:\users\chaub\anaconda3\lib\site-packages (from seaborn) (1.20.1)
          Requirement already satisfied: matplotlib>=2.2 in c:\users\chaub\anaconda3\lib\site-packages (from seaborn) (3.3.4)
          Requirement already satisfied: pandas>=0.23 in c:\users\chaub\anaconda3\lib\site-packages (from seaborn) (1.2.4)
          Requirement already satisfied: python-dateutil>=2.1 in c:\users\chaub\anaconda3\lib\site-packages (from matplotlib>=2.2->seabor
          n) (2.8.1)
          Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\chaub\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn)
          (1.3.1)
          Requirement already satisfied: cycler>=0.10 in c:\users\chaub\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn) (0.1
          0.0)
          Requirement already satisfied: pillow>=6.2.0 in c:\users\chaub\anaconda3\lib\site-packages (from matplotlib>=2.2->seaborn) (8.
          2.0)
          Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.3 in c:\users\chaub\anaconda3\lib\site-packages (from mat
          plotlib>=2.2->seaborn) (2.4.7)
          Requirement already satisfied: six in c:\users\chaub\anaconda3\lib\site-packages (from cycler>=0.10->matplotlib>=2.2->seaborn)
          (1.15.0)
          Requirement already satisfied: pytz>=2017.3 in c:\users\chaub\anaconda3\lib\site-packages (from pandas>=0.23->seaborn) (2021.1)
         Note: you may need to restart the kernel to use updated packages.
In [7]: import seaborn as sns
```

13

```
In [10]: import os
    print(os.getcwd())

    C:\Users\chaub

In [6]: df=open("D:\Test1.txt","r")
    print(df.read())
    df.close()

What is Python used for?
    Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis.
    Python is a general-purpose language, meaning it can be used to create a variety of different programs and isn't specialized fo
    r any specific problems
```

14.

Python is a high – level, interpreted, general – purpose programming language.