

Name - Khushi Chhatwani  
College Roll no.- CSC/21/55  
University Roll no. - 21059570021

5. Use commands to compute the size of a matrix, size/length of a particular row/column, load data from a text file, store matrix data to a text file, finding out variables and their features in the current scope.

```
import numpy

A = np.arange(12).reshape((3, 4))
A

[20]
... array([[ 0,  1,  2,  3],
          [ 4,  5,  6,  7],
          [ 8,  9, 10, 11]])

# Size of matrix
# A.size
np.size(A)

[21]
... 12

# Shape of matrix
A.shape

[22]
... (3, 4)

# Length of 1st row
len(A[0])

[23]
... 4

# Length of first column
np.size(A, 0)

[24]
... 3
```

Restricted Mode 0 0 0

Name - Khushi Chhatwani

College Roll no.- CSC/21/55

University Roll no. - 21059570021

```
[24] # Length of first column
      np.size(A, 0)

... 3

[25] # Loading data from text file
      #np.loadtxt("input5.txt", delimiter=',', dtype=int)
      import pandas as pd

      df = pd.read_csv('input5.txt')
      df

[26] df.drop(df.tail(5).index,inplace=True)
      df

...

[27] # Saving data to txt file
      df.to_csv('output5.txt', sep=' ')

[28] # List of features
      df.columns.values

... array(['Sell', 'List', 'Living', 'Rooms', 'Beds', 'Baths',
        'Age', 'Acres', 'Taxes'], dtype=object)
```

Restricted Mode 0 0 0