Data Structures:

```
List
```

- Set
- Tuples
- Dictionary
- Arrays
- Multidimensional Arrays (Matrix)
- DataFrame

```
In [8]:
L = ['a','b','Delhi',981,12]
In [9]:
L
Out[9]:
['a', 'b', 'Delhi', 981, 12]
In [10]:
type(L)
Out[10]:
list
In [12]:
S = {'a','b','Delhi',981,12}
In [13]:
S
Out[13]:
{12, 981, 'Delhi', 'a', 'b'}
In [14]:
type(S)
Out[14]:
set
In [15]:
T = ('a','b','Delhi',981,12)
print(type(T))
<class 'tuple'>
```

```
In [16]:
type(T)
Out[16]:
tuple
In [18]:
L[2]
Out[18]:
'Delhi'
In [20]:
T[2]
Out[20]:
'Delhi'
In [21]:
D = {'location': 'India', 'Name': 'pavan'}
In [22]:
type(D)
Out[22]:
dict
In [23]:
D
Out[23]:
{'location': 'India', 'Name': 'pavan'}
In [24]:
D['location']
Out[24]:
'India'
In [27]:
arr = np.array(['a','b','Delhi',981,12])
```

```
In [28]:
arr
Out[28]:
array(['a', 'b', 'Delhi', '981', '12'], dtype='<U5')
In [37]:
type(arr)
Out[37]:
numpy.ndarray
In [38]:
brr = np.array(['a','b','c'])
brr
Out[38]:
array(['a', 'b', 'c'], dtype='<U1')</pre>
In [29]:
L
Out[29]:
['a', 'b', 'Delhi', 981, 12]
In [30]:
L[1:3]
Out[30]:
['b', 'Delhi']
In [31]:
L[1:3] = 'x'
In [32]:
L
Out[32]:
['a', 'x', 981, 12]
```

```
In [36]:
T[1]='x'
TypeError
                                           Traceback (most recent call las
t)
<ipython-input-36-8fb88bb05efe> in <module>
----> 1 T[1]='x'
TypeError: 'tuple' object does not support item assignment
In [25]:
import numpy as np
In [33]:
arr[1:3] = 'x'
In [34]:
arr
Out[34]:
array(['a', 'x', 'x', '981', '12'], dtype='<U5')
In [ ]:
X[20:89] # begin:end-1
In [39]:
X = np.array([[1,2],[3,4]])
Χ
Out[39]:
array([[1, 2],
       [3, 4]])
In [40]:
import pandas as pd
In [41]:
df = pd.DataFrame({'col1':[1,2,3],'col': ['a','b','c']})
In [42]:
type(df)
Out[42]:
pandas.core.frame.DataFrame
```

```
In [43]:
df
Out[43]:
   col1 col
 0
      1
          а
 1
      2
          b
 2
      3
          С
In [44]:
a = ([1,2],[3,4])
type(a)
Out[44]:
tuple
In [45]:
a[0]
Out[45]:
[1, 2]
In [51]:
a[0][0]
Out[51]:
In [48]:
a[0][1] = 99
In [50]:
a[0]=[99]
                                            Traceback (most recent call las
TypeError
t)
<ipython-input-50-a46346fe40ef> in <module>
----> 1 a[0]=[99]
TypeError: 'tuple' object does not support item assignment
```

```
In [52]:
a.append([7
          ,8])
AttributeError
                                           Traceback (most recent call las
t)
<ipython-input-52-a7d3fc44d17b> in <module>
----> 1 a.append([7,8])
AttributeError: 'tuple' object has no attribute 'append'
In [53]:
Out[53]:
['a', 'x', 981, 12]
In [54]:
L.append('Delhi')
In [55]:
L
Out[55]:
['a', 'x', 981, 12, 'Delhi']
In [56]:
L.remove('Delhi')
In [57]:
L
Out[57]:
['a', 'x', 981, 12]
In [59]:
var = L.pop(1)
Out[59]:
'x'
In [60]:
L
Out[60]:
['a', 981, 12]
```

```
In [61]:
arr = np.array([1,2,3,4,5,6,7,8,9])
In [62]:
arr.max()
Out[62]:
9
In [63]:
arr.min()
Out[63]:
1
In [64]:
arr.mean()
Out[64]:
5.0
In [65]:
arr.sum()
Out[65]:
45
In [66]:
arr.std()
Out[66]:
2.581988897471611
In [67]:
arr
Out[67]:
array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [68]:
type(arr)
Out[68]:
numpy.ndarray
```

```
In [69]:
arr[2]
Out[69]:
3
In [70]:
arr[2:6]
Out[70]:
array([3, 4, 5, 6])
In [71]:
arr[-1]
Out[71]:
9
In [75]:
arr[4:-1]
Out[75]:
array([5, 6, 7, 8])
In [76]:
arr[2:]
Out[76]:
array([3, 4, 5, 6, 7, 8, 9])
In [77]:
arr[:4]
Out[77]:
array([1, 2, 3, 4])
In [78]:
df
Out[78]:
   col1 col
0
          а
 1
          b
```

file:///G:/Intro to python.html

3

2

```
In [98]:
```

```
for i in range(0,10,2):
    print(i)

0
2
4
6
8

In [100]:

df['col3'] = ['x','y','z']
df
```

Out[100]:

	col1	col	col3
0	1	а	х
1	2	b	у
2	3	С	z

In [101]:

```
df.columns
```

Out[101]:

Index(['col1', 'col', 'col3'], dtype='object')

In [102]:

```
df.columns = ['col1', 'col2', 'col3']
df
```

Out[102]:

	COLL	COIZ	COIS
0	1	а	Х
1	2	b	у
2	3	С	z

In [103]:

```
df.rename(columns={'col1': 'col_A'})
```

Out[103]:

	col_A	col2	col3
0	1	а	х
1	2	b	у
2	3	С	z

12/12/2019

```
Intro
In [104]:
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3 entries, 0 to 2
Data columns (total 3 columns):
col1
        3 non-null int64
col2
        3 non-null object
col3
        3 non-null object
dtypes: int64(1), object(2)
memory usage: 200.0+ bytes
In [105]:
df.describe()
Out[105]:
       col1
        3.0
count
        2.0
 mean
        1.0
  std
  min
        1.0
```

25% 1.5 50% 2.0 75% 2.5 3.0 max

In [106]:

df

Out[106]:

	col1	col2	col3
0	1	а	х
1	2	b	у
2	3	С	z

In [108]:

```
df.iloc[0]
```

Out[108]:

col1 1 col2 а col3

Name: 0, dtype: object

df.loc[row condition, list of columns to fetch]

```
In [114]:
```

```
df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3 entries, 0 to 2
Data columns (total 3 columns):
col1    3 non-null int64
col2    3 non-null object
col3    3 non-null object
dtypes: int64(1), object(2)
memory usage: 200.0+ bytes
```

In [122]:

```
df.loc[df['col1']>=2, ['col3','col1','col2']]
```

Out[122]:

	col3	col1	col2
1	у	2	b
2	z	3	С

In [120]:

df

Out[120]:

	col1	col2	col3
0	1	а	Х
1	2	b	у
2	3	C	7

In [124]:

```
df.iloc[2]
```

Out[124]:

col1 3 col2 c col3 z

Name: 2, dtype: object

```
In [125]:
```

```
df.isnull()
```

Out[125]:

	col1	col2	col3
0	False	False	False
1	False	False	False
2	False	False	False

In [126]:

df

Out[126]:

	col1	col2	col3
0	1	а	Х
1	2	b	у
2	3	С	Z

In [131]:

```
df.loc[1,'col2'] = np.nan
```

In [132]:

df

Out[132]:

	col1	col2	col3
0	1	а	Х
1	2	NaN	у
2	3	С	z

In [137]:

```
df.isna()
```

Out[137]:

	col1	col2	col3
0	False	False	False
1	False	True	False
2	False	False	False

```
In [138]:
df.isnull()
Out[138]:
    col1
          col2
               col3
 0 False False
               False
 1 False
         True False
 2 False False False
In [139]:
df.fillna('b')
Out[139]:
   col1 col2 col3
 0
      1
                Х
 1
      2
           b
                у
 2
      3
           С
                Z
In [140]:
df.isna().sum()
Out[140]:
col1
        0
col2
        1
col3
dtype: int64
In [141]:
np.ones(shape=(2,3))
Out[141]:
array([[1., 1., 1.],
       [1., 1., 1.]])
In [142]:
for i in range(0,10,2):
    print(i)
0
2
4
6
8
```

```
In [143]:
np.arange(0,10,2)
Out[143]:
array([0, 2, 4, 6, 8])
In [145]:
np.linspace(0, 2, 5)
Out[145]:
array([0., 0.5, 1., 1.5, 2.])
In [146]:
range(100)
Out[146]:
range(0, 100)
In [147]:
np.arange(0,100)
Out[147]:
array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,
       17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33,
       34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
       51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67,
       68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84,
       85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99])
In [148]:
np.zeros((3,3))
Out[148]:
array([[0., 0., 0.],
       [0., 0., 0.],
       [0., 0., 0.]])
In [149]:
arr
Out[149]:
array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [150]:
arr.ndim
Out[150]:
1
```

```
In [152]:
m_{arr} = np.array([np.arange(0,10),np.arange(10,20)])
m_arr
Out[152]:
array([[ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9],
       [10, 11, 12, 13, 14, 15, 16, 17, 18, 19]])
In [153]:
m_arr.ndim
Out[153]:
2
In [154]:
m_arr.shape
Out[154]:
(2, 10)
In [155]:
arr.shape
Out[155]:
(9,)
In [156]:
arr
Out[156]:
array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [162]:
arr.reshape((3,3))
Out[162]:
array([[1, 2, 3],
       [4, 5, 6],
       [7, 8, 9]])
In [165]:
arr.shape
Out[165]:
(9,)
```

```
In [166]:
arr.T
Out[166]:
array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [168]:
arr.size
Out[168]:
9
In [169]:
arr.itemsize
Out[169]:
In [170]:
arr.data
Out[170]:
<memory at 0x000002218FBB2408>
In [171]:
arr.dtype
Out[171]:
dtype('int32')
In [172]:
a = np.array([20,30,40,50])
b = np.arange(4)
Out[172]:
array([0, 1, 2, 3])
In [173]:
c = a - b
Out[173]:
array([20, 29, 38, 47])
```

```
In [174]:
b*2
Out[174]:
array([0, 2, 4, 6])

In [175]:
b**2
Out[175]:
array([0, 1, 4, 9], dtype=int32)

In [176]:
import numpy
```

In [177]:

dir(numpy)

Out[177]:

```
['ALLOW THREADS',
 'AxisError',
 'BUFSIZE',
 'CLIP',
 'ComplexWarning',
 'DataSource',
 'ERR_CALL',
 'ERR_DEFAULT',
 'ERR_IGNORE',
 'ERR_LOG',
 'ERR_PRINT'
 'ERR_RAISE',
 'ERR_WARN',
 'FLOATING_POINT_SUPPORT',
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 'FPE_INVALID',
 'FPE_OVERFLOW',
 'FPE_UNDERFLOW',
 'False_',
 'Inf',
 'Infinity',
 'MAXDIMS',
 'MAY_SHARE_BOUNDS',
 'MAY_SHARE_EXACT',
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 'PINF',
 'PZERO',
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 'RankWarning',
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 'SHIFT_INVALID',
 'SHIFT_OVERFLOW',
 'SHIFT UNDERFLOW',
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 'UFUNC_PYVALS_NAME',
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 '__name__',
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```
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'atleast_3d',
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'extract',
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'fft',
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'fliplr',
'flipud',
```

22/33

```
'float',
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'fromiter',
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'fv',
'gcd',
'generic',
'genfromtxt',
'geomspace',
'get_array_wrap',
'get_include',
'get_printoptions',
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'geterrobj',
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'hanning',
'heaviside',
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'hstack',
'hypot',
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'info',
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```
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'int_asbuffer',
'intc',
'integer',
'interp',
'intersect1d',
'intp',
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'is_busday',
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'iscomplexobj',
'isfinite',
'isfortran',
'isin',
'isinf',
'isnan',
'isnat',
'isneginf',
'isposinf',
'isreal',
'isrealobj',
'isscalar',
'issctype',
'issubclass_',
'issubdtype',
'issubsctype',
'iterable',
'ix_',
'kaiser',
'kron',
'lcm',
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'left shift',
'less',
'less_equal',
'lexsort',
'lib',
'linalg',
'linspace',
'little_endian',
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'loads',
'loadtxt',
'log',
'log10',
'log1p',
'log2',
'logaddexp',
'logaddexp2',
```

```
'logical_and',
'logical_not',
'logical_or',
'logical_xor',
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'longcomplex',
'longdouble',
'longfloat',
'longlong',
'lookfor',
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'mafromtxt',
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'mat',
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'matrix',
'matrixlib',
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'mean',
'median',
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'minimum',
'mintypecode',
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'modf',
'moveaxis',
'msort',
'multiply',
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'nan_to_num',
'nanargmax',
'nanargmin',
'nancumprod',
'nancumsum',
'nanmax',
'nanmean',
'nanmedian',
'nanmin',
'nanpercentile',
'nanprod',
'nanquantile',
'nanstd',
'nansum',
'nanvar',
'nbytes',
'ndarray',
'ndenumerate',
'ndfromtxt',
'ndim',
'ndindex',
'nditer',
```

```
'negative',
'nested_iters',
'newaxis',
'nextafter',
'nonzero',
'not_equal',
'nper',
'npv',
'numarray',
'number',
'obj2sctype',
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'object0',
'object_',
'ogrid',
'oldnumeric',
'ones',
'ones_like',
'outer',
'packbits',
'pad',
'partition',
'percentile',
'pi',
'piecewise',
'pkgload',
'place',
'pmt',
'poly',
'poly1d',
'polyadd',
'polyder',
'polydiv',
'polyfit',
'polyint',
'polymul',
'polynomial',
'polysub',
'polyval',
'positive',
'power',
'ppmt',
'print_function',
'printoptions',
'prod',
'product',
'promote_types',
'ptp',
'put',
'put_along_axis',
'putmask',
'pv',
'quantile',
'r_',
'rad2deg',
'radians',
'random',
'rank',
'rate',
'ravel',
'ravel_multi_index',
```

```
'real',
'real_if_close',
'rec',
'recarray',
'recfromcsv',
'recfromtxt',
'reciprocal',
'record',
'remainder',
'repeat',
'require',
'reshape',
'resize',
'result_type',
'right_shift',
'rint',
'roll',
'rollaxis',
'roots',
'rot90',
'round',
'round_',
'row_stack',
's_',
'safe_eval',
'save',
'savetxt',
'savez',
'savez_compressed',
'sctype2char',
'sctypeDict',
'sctypeNA',
'sctypes',
'searchsorted',
'select',
'set_numeric_ops',
'set_printoptions',
'set_string_function',
'setbufsize',
'setdiff1d',
'seterr',
'seterrcall',
'seterrobj',
'setxor1d',
'shape',
'shares_memory',
'short',
'show_config',
'sign',
'signbit',
'signedinteger',
'sin',
'sinc',
'single',
'singlecomplex',
'sinh',
'size',
'sometrue',
'sort',
'sort_complex',
'source',
```

27/33

```
'spacing',
'split',
'sqrt',
'square',
'squeeze',
'stack',
'std',
'str',
'str0',
'str_',
'string_',
'subtract',
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'uintc',
'uintp',
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'ushort',
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 'void0',
 'vsplit',
 'vstack',
 'warnings',
 'where',
 'who',
 'zeros',
 'zeros_like']
In [178]:
arr
Out[178]:
array([1, 2, 3, 4, 5, 6, 7, 8, 9])
In [180]:
arr.argmax()
Out[180]:
8
```

In [182]:

dir(pd)

Out[182]:

```
['Categorical',
 'CategoricalDtype',
 'CategoricalIndex',
 'DataFrame',
 'DateOffset',
 'DatetimeIndex',
 'DatetimeTZDtype',
 'ExcelFile',
 'ExcelWriter',
 'Float64Index',
 'Grouper',
 'HDFStore',
 'Index',
 'IndexSlice',
 'Int16Dtype',
 'Int32Dtype',
 'Int64Dtype',
 'Int64Index',
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 'IntervalDtype',
 'IntervalIndex',
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 'NaT',
 'NamedAgg',
 'Period',
 'PeriodDtype',
 'PeriodIndex',
 'RangeIndex',
 'Series',
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 'SparseDataFrame',
 'SparseDtype',
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 '__getattr_
   _git_version__',
   _loader__',
   __name___',
   __package__',
  __path___',
   _spec__
 '__version__',
 __config',
 ' hashtable',
 '_lib',
 '_libs',
```

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'_np_version_under1p14',
'\_np\_version\_under1p15',
'_np_version_under1p16',
'_np_version_under1p17',
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'notna',
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'plotting',
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'read hdf',
'read_html',
'read_json',
'read_msgpack',
'read_parquet',
'read pickle',
'read_sas',
'read_spss',
'read_sql',
```

32/33

```
'read_sql_query',
'read_sql_table',
'read_stata',
'read_table',
'reset_option',
'set_eng_float_format',
'set_option',
'show_versions',
'test',
'testing',
'timedelta_range',
'to_datetime',
'to_msgpack',
'to_numeric',
'to_pickle',
'to_timedelta',
'tseries',
'unique',
'util',
'value_counts',
'wide_to_long']
```

In []: