LIST

In [2]: *#List : A list is a container which can hold different data types in it.*
         lst=["gamany",20,98743,3498.456]

In [3]: lst

Out[3]: ['gamany', 20, 98743, 3498.456]

In [4]: lst[2]

Out[4]: 98743

In [5]: lst.append("pruthvi")

In [6]: lst

Out[6]: ['gamany', 20, 98743, 3498.456, 'pruthvi']

In [7]: lst.index(98743)

Out[7]: 2

In [8]: lst[-1]

Out[8]: 'pruthvi'

In [9]: lst.remove(20)

In [10]: lst

Out[10]: ['gamany', 98743, 3498.456, 'pruthvi']

In [12]: lst.insert(111,"tokyo")

In [13]: lst

Out[13]: ['gamany', 98743, 3498.456, 'pruthvi', 'tokyo']

In [14]: lst.reverse()

In [15]: lst

Out[15]: ['tokyo', 'pruthvi', 3498.456, 98743, 'gamany']

DICTIONARIES

Dict : It is a unordered key value pair data structure

```
In [18]: dit={"name":"gunashree","age":"20","number":8736628627}
```

```
In [19]: dit
```
```
Out[19]: {'name': 'gunashree', 'age': '20', 'number': 8736628627}
```

```
In [20]: dit.items()
```
```
Out[20]: dict_items([('name', 'gunashree'), ('age', '20'), ('number', 8736628627)])
```

```
In [21]: dit.keys()
```
```
Out[21]: dict_keys(['name', 'age', 'number'])
```

```
In [22]: dit["school"]="navkis"
```

```
In [23]: dit
```
```
Out[23]: {'name': 'gunashree', 'age': '20', 'number': 8736628627, 'school': 'navkis'}
```

```
In [24]: type(dit)
```
```
Out[24]: dict
```

```
In [25]: dit.get('name')
```
```
Out[25]: 'gunashree'
```

```
In [26]: dit.values()
```
```
Out[26]: dict_values(['gunashree', '20', 8736628627, 'navkis'])
```

```
In [27]: dit.copy()
```
```
Out[27]: {'name': 'gunashree', 'age': '20', 'number': 8736628627, 'school': 'navkis'}
```

SET

```
In [28]: #Set : Set are used for string unique values in python
```

```
In [30]: st={"gamany","kna",7,8,4,6,3,4}
```

In [31]: `st`

Out[31]: `{3, 4, 6, 7, 8, 'gamany', 'kna'}`

In [32]: `st.add("dsatm")`

In [33]: `st`

Out[33]: `{3, 4, 6, 7, 8, 'dsatm', 'gamany', 'kna'}`

In [34]: `st1={"gamany",7}`

In [35]: `st1`

Out[35]: `{7, 'gamany'}`

In [36]: `st2={"dsatm","kna"}`

In [37]: `st2`

Out[37]: `{'dsatm', 'kna'}`

In [38]: `st1.issubset(st)`

Out[38]: `True`

In [39]: `st.intersection(st2)`

Out[39]: `{'dsatm', 'kna'}`

In [40]: `st.symmetric_difference(st2)`

Out[40]: `{3, 4, 6, 7, 8, 'gamany'}`

In [41]: `st.isdisjoint(st2)`

Out[41]: `False`

TUPLE

In [42]: `#Tuple : Tuples are ordered immutable collections of object.`

In [46]: `tup=('gunashree','banglore',"8976752989")`

In [47]: `tup`

Out[47]: `('gunashree', 'banglore', '8976752989')`

```
In [48]: tup.count(8976752989)
Out[48]: 0
```

```
In [49]: tup.index('banglore')
Out[49]: 1
```

STRING

```
In [50]: #String : String is a orderd sequence charecter. and it is immutable.
```

```
In [51]: str=("i love my country")
```

```
In [52]: str
Out[52]: 'i love my country'
```

```
In [53]: str.capitalize()
Out[53]: 'I love my country'
```

```
In [54]: str.lower()
Out[54]: 'i love my country'
```

```
In [55]: str.split()
Out[55]: ['i', 'love', 'my', 'country']
```

```
In [56]: str.title()
Out[56]: 'I Love My Country'
```

```
In [57]: str.isupper()
Out[57]: False
```

```
In [58]: str.partition('love')
Out[58]: ('i ', 'love', ' my country')
```

```
In [ ]:
```