In [1]:
```python
#A list is a container which can hold diffrent data types in it.
lst=["Swathi",15,8790,[9,8,5],"Priya"]
```

In [2]:
```python
lst
```

Out[2]: ['Swathi', 15, 8790, [9, 8, 5], 'Priya']

In [3]:
```python
lst[0]
```

Out[3]: 'Swathi'

In [5]:
```python
lst[3][1]
```

Out[5]: 8

In [6]:
```python
lst.append("sumiya")
```

In [7]:
```python
lst
```

Out[7]: ['Swathi', 15, 8790, [9, 8, 5], 'Priya', 'sumiya']

In [9]:
```python
lst.index(15)
```

Out[9]: 1

In [10]:
```python
lst[-1]
```

Out[10]: 'sumiya'

In [11]:
```python
lst[-4]
```

Out[11]: 8790

In [12]:
```python
lst[4]
```

Out[12]: 'Priya'

In [13]:
```
lst[3][2]
```

Out[13]: 5

In [14]:
```
#It is complex,this is a key value pair data structure
```

In [22]:
```
dit={"name ":"Swathipriya","age":"20","phone number":"123456789"}
```

In [23]:
```
dit
```

Out[23]: {'name ': 'Swathipriya', 'age': '20', 'phone number': '123456789'}

In [28]:
```
dit.items()
```

Out[28]: dict_items([('name ', 'Swathipriya'), ('age', '20'), ('phone number', '123456789')])

In [29]:
```
dit.keys()
```

Out[29]: dict_keys(['name ', 'age', 'phone number'])

In [34]:
```
dit
```

Out[34]: {'name ': 'Swathipriya', 'age': '20', 'phone number': '123456789'}

In [35]:
```
dit["School"]="GEMS"
```

In [36]:
```
dit
```

Out[36]: {'name ': 'Swathipriya',
          'age': '20',
          'phone number': '123456789',
          'School': 'GEMS'}

In [37]:
```
type(dit)
```

Out[37]: dict

In [41]: `#sets are used for string unique values in the python`

In [42]: `st={"kumari","Google",1,1,2,4,8,5,2,9}`

In [43]: `st`

Out[43]: `{1, 2, 4, 5, 8, 9, 'Google', 'kumari'}`

In [46]: `st2={"Google",2}`

Type *Markdown* and LaTeX: α^2

In [48]: `st2.issubset(st)`

Out[48]: `True`

In [49]: `#tuples are ordered immutable collection of objects`

In [50]: `tup=("Swathi","%","swathi@com")`

In [51]: `tup`

Out[51]: `('Swathi', '%', 'swathi@com')`

In [52]: `tup.count("%")`

Out[52]: `1`

In [53]: `tup.index("swathi@com")`

Out[53]: `2`

In [54]: `#String is  ordered sequence of characters`

In [55]:
```python
name="Swathi"
name1="Soumya"
```

In [57]:
```python
name1
```

Out[57]: 'Soumya'

In [58]:
```python
name+" "+name1
```

Out[58]: 'Swathi Soumya'

In [59]:
```python
type(name)
```

Out[59]: str

In [ ]: