# List DataType / Data Structure

[3]:
```
#1.List data type can store more than one element/values
#2.List data can can hold mutliple datatypes(string, int, float)
#3.List data type is mutable datatype (values can be modified/changed)
#3.List data type is enclosed[]
```

[15]:
```
student1 = ["devadatta","bangalore",450,92.5]
```

[17]:
```
type(a)
```

[17]: list

[21]:
```
print(student1)
```
['devadatta', 'bangalore', 450, 92.5]

[23]:
```
student1[1]
```

[23]: 'bangalore'

[25]:
```
student1[0]
```

[25]: 'devadatta'

[29]:
```
student1[-1]
```

[29]: 92.5

[31]:
```
student1
```

[31]: ['devadatta', 'bangalore', 450, 92.5]

[39]:
```
student1[0]="Rohtit"
```

[41]:
```
student1
```

[41]: ['Rohtit', 'bangalore', 450, 92.5]

[45]:
```
student1[1]="Ahmedabad"
```

[47]:
```
student1
```

[47]: ['Rohtit', 'Ahmedabad', 450, 92.5]

[49]:
```
student1.append("Gujarath")
```

[51]:
```
student1
```

[51]: ['Rohtit', 'Ahmedabad', 450, 92.5, 'Gujarath']

[53]:
```
student1.append(33)
```

[55]:
```
student1
```

[55]: ['Rohtit', 'Ahmedabad', 450, 92.5, 'Gujarath', 33]

[57]:
```
student1.extend([10,20,30])
```

[59]:
```
student1
```

[59]: ['Rohtit', 'Ahmedabad', 450, 92.5, 'Gujarath', 33, 10, 20, 30]

[61]:
```
student1.insert(1,"Male")
```

[65]:
```
student1
```

[65]: ['Rohtit', 'Male', 'Ahmedabad', 450, 92.5, 'Gujarath', 33, 10, 20, 30]

[67]:
```
student1.pop()
```

[67]: 30

[69]:
```
student1
```

[69]: ['Rohtit', 'Male', 'Ahmedabad', 450, 92.5, 'Gujarath', 33, 10, 20]

[71]:
```
student1.remove("Male")
```

[73]:
```
student1
```

[73]: ['Rohtit', 'Ahmedabad', 450, 92.5, 'Gujarath', 33, 10, 20]

[ ]: