Practical 3.3

Import array module in python and perform all operations available in the module

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Importing array module

In [30]:
```
import array as ar
```

In [80]:
```
a = ar.array('i',[8,9,25,23,13,18])
```

Indexing and Slicing

In [81]:
```
a[2]
```

Out[81]: 25

In [82]:
```
a[2:5]
```

Out[82]: array('i', [25, 23, 13])

Appending,updating,inserting,removing and popping

In [83]:
```
a.append(25)
```

In [84]:
```
a
```

Out[84]: array('i', [8, 9, 25, 23, 13, 18, 25])

In [85]:
```
a[4] = 40
```

In [86]:
```
a
```

Out[86]: array('i', [8, 9, 25, 23, 40, 18, 25])

In [87]:
```
a.insert(0,42)
```

In [88]:
```
a
```

Out[88]: array('i', [42, 8, 9, 25, 23, 40, 18, 25])

In [89]:
```
a.remove(9)
```

In [90]:
```
a
```

Out[90]:
```
array('i', [42, 8, 25, 23, 40, 18, 25])
```

In [91]:
```
a.pop(0)
```

Out[91]:
```
42
```

Length,Counting and Extending

In [92]:
```
len(a)
```

Out[92]:
```
6
```

In [93]:
```
a.count(25)
```

Out[93]:
```
2
```

In [94]:
```
a.extend([14,11,12])
```

In [95]:
```
a
```

Out[95]:
```
array('i', [8, 25, 23, 40, 18, 25, 14, 11, 12])
```

Typecode, Buffer_info, sorting and reversing

In [96]:
```
a.typecode
```

Out[96]:
```
'i'
```

In [97]:
```
a.buffer_info()
```

Out[97]:
```
(2595852520064, 9)
```

In [98]:
```
a = sorted(a)
```

In [99]:
```
a.sort()
```

In [100]
```
a
```

Out[100]
```
[8, 11, 12, 14, 18, 23, 25, 25, 40]
```

In [101]
```
a.reverse()
```

In [102]
```
a
```

Out[102]
```
[40, 25, 25, 23, 18, 14, 12, 11, 8]
```