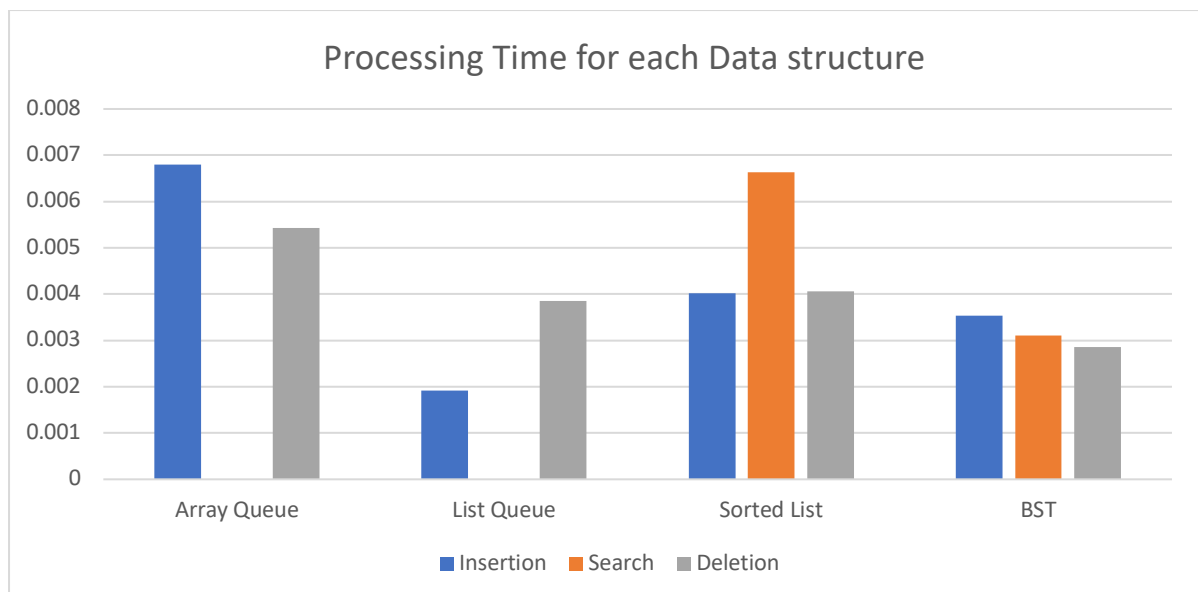


Processing time analysis for Different Data structures –

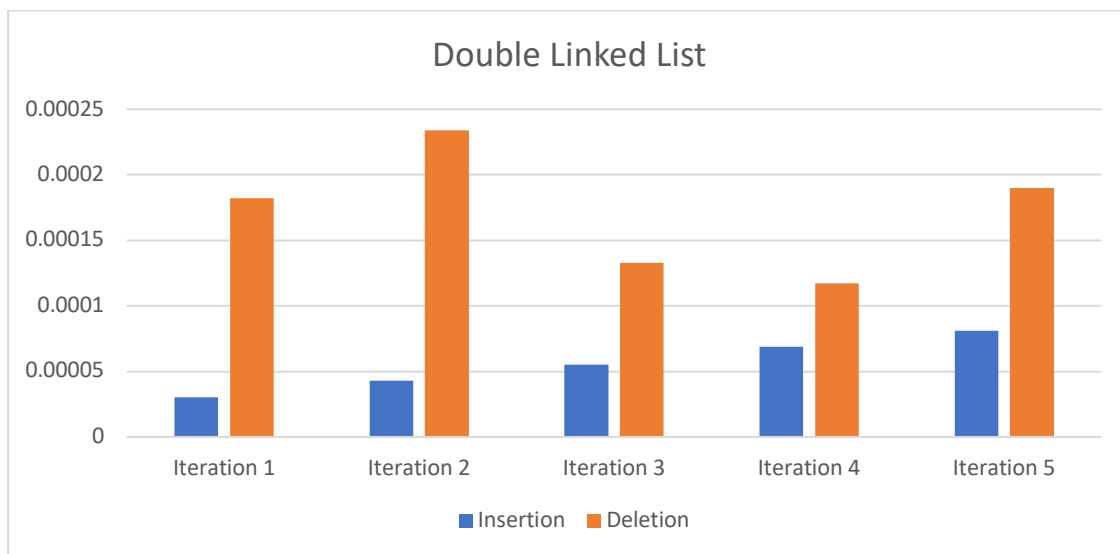
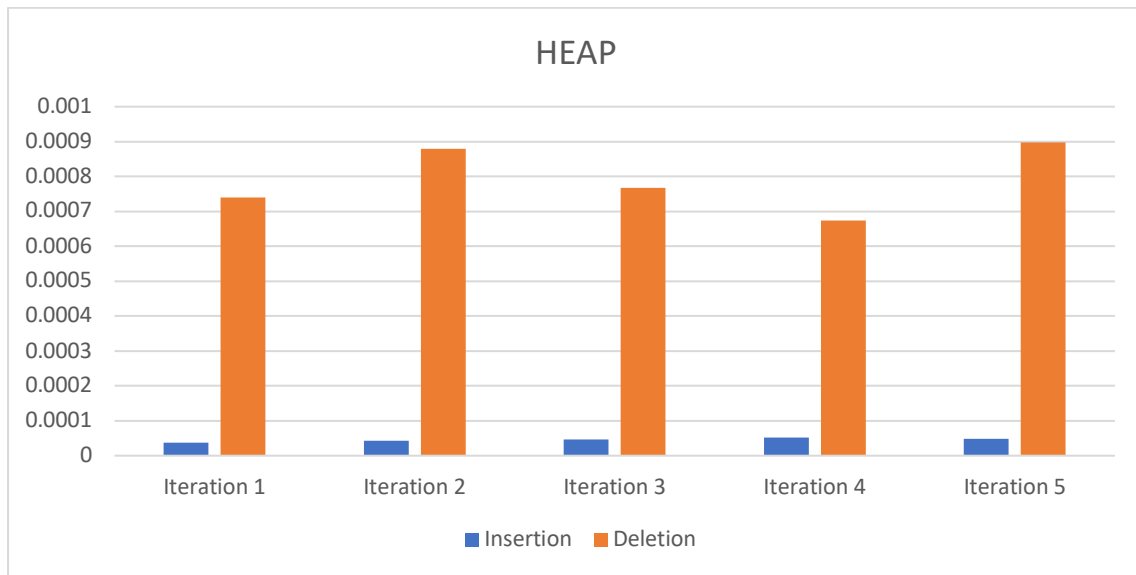
For Input (1000 elements)

| Data Structure | Insertion | Search | Deletion |
|--------------------------|-----------|----------|----------|
| Array Queue | | | |
| Iteration 1 | 0.000946 | -- | 0.000738 |
| Iteration 2 | 0.000978 | -- | 0.000789 |
| Iteration 3 | 0.002253 | -- | 0.001768 |
| Iteration 4 | 0.001674 | -- | 0.001348 |
| Iteration 5 | 0.000951 | -- | 0.000781 |
| Linked List Queue | | | |
| Iteration 1 | 0.000302 | -- | 0.000581 |
| Iteration 2 | 0.000302 | -- | 0.000628 |
| Iteration 3 | 0.000540 | -- | 0.001089 |
| Iteration 4 | 0.000475 | -- | 0.000962 |
| Iteration 5 | 0.000300 | -- | 0.000590 |
| Sorted List | | | |
| Iteration 1 | 0.000631 | 0.000933 | 0.000645 |
| Iteration 2 | 0.000677 | 0.000984 | 0.000637 |
| Iteration 3 | 0.001324 | 0.001889 | 0.001162 |
| Iteration 4 | 0.001118 | 0.001461 | 0.001000 |
| Iteration 5 | 0.000652 | 0.000960 | 0.000619 |
| BST | | | |
| Iteration 1 | 0.000638 | 0.000350 | 0.000370 |
| Iteration 2 | 0.000857 | 0.000818 | 0.000399 |
| Iteration 3 | 0.000898 | 0.000861 | 0.000909 |
| Iteration 4 | 0.000753 | 0.000731 | 0.000770 |
| Iteration 5 | 0.000393 | 0.000353 | 0.000406 |



| Data Structure (Heap) | Insertion | Deletion |
|-----------------------|-----------|----------|
| Iteration 1 | 0.000038 | 0.000739 |
| Iteration 2 | 0.000043 | 0.000880 |
| Iteration 3 | 0.000046 | 0.000768 |
| Iteration 4 | 0.000052 | 0.000674 |
| Iteration 5 | 0.000049 | 0.000897 |

| Data Structure (DL) | Insertion | Deletion |
|---------------------|-----------|----------|
| Iteration 1 | 0.000030 | 0.000182 |
| Iteration 2 | 0.000043 | 0.000234 |
| Iteration 3 | 0.000055 | 0.000133 |
| Iteration 4 | 0.000069 | 0.000117 |
| Iteration 5 | 0.000081 | 0.000190 |



Note – All the data collected after running 5000 patients input file.