Name :-Purval Madhukar Bhude

Roll No. S20230010193

Subject :- DSA

Lab Assignment 11

Question 1

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11\rm if ($?) { gcc $20230010193 All }; if ($?) { gcc $20230010193 All } print which question to run: 1 enter number of elements that you have to enter: 10 enter elements in array: 5
4
6
7
1
3
4
8
9
6
not a max heap
```

Question 2

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11\"; if ($?) { gcc $2023001019 3_A11 }; if ($?) { .\s20230010193_A11 } print which question to run: 2
Min Heap: 2 3 4 5 6 8 10
BST converted to minHeap
```

Question 3

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11\"; if ($?) { gcc S2023001019 3_A11 } print which question to run: 3 enter number of element you have to enter in linked list: 10 enter element: 9 7 5 8 6 6 1 3 2 4 6 after sorting linked list: 9 7 5 8 6 1 3 2 4 6 after sorting linked list: 1 2 3 4 5 6 6 7 8 9
```

Question 4

```
PS C:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11> cd "c:\IIITS ASSIGNMENTS\Sem 2\Data Structure And Algo\Assignment 11\"; if ($?) { gcc S2023001019 3_A11 }; if ($?) { .\S20230010193_A11 } print which question to run: 4 enter number of element you have to enter in array: 10 enter element: enter elements in array: 10
55
44
10
32
78
45
21
68
47
your entered array: 10 55 44 10 32 78 45 21 68 47
16 camparision required
your array after insertion sort: 10 10 21 32 44 45 47 55 68 78
```