1.Bubble Sort

2. Selection Sort

Select C:\Users\PC\Desktop\b.Dsa\Lab 7\Selection Sort.exe

```
Enter the number of elements: 5
Enter 5 elements: 2
5
4
7
8
Original array: 2 5 4 7 8
Sorted array: 2 4 5 7 8

Process exited after 5.583 seconds with return value 0
Press any key to continue . . .
```

3.Insertion Sort

C:\Users\PC\Desktop\b.Dsa\Lab 7\Insertion Sort.exe

4.Shell sort

C:\Users\PC\Desktop\b.Dsa\Lab 7\Shell sort.exe

5.Merge sort

```
    C:\Users\PC\Desktop\b.Dsa\Lab 7\Merge sort.exe

Enter the number of elements: 5
```

```
Enter the number of elements: 5
Enter 5 elements: 45
48
15
12
23
Original array: 45 48 15 12 23
Merging: 45 48
Merging: 15 45 48
Merging: 12 23
Merging: 12 15 23 45 48
Sorted array: 12 15 23 45 48

Process exited after 11.34 seconds with return value 0
Press any key to continue . . . _
```

6. Quick Sort

C:\Users\PC\Desktop\b.Dsa\Lab 7\Quick Sort.exe

```
Enter the number of elements: 5
Enter 5 elements: 23
12
14
15
16
Original array: 23 12 14 15 16
Partitioning with pivot 16: 12 14 15 16 23
Partitioning with pivot 15: 12 14 15
Partitioning with pivot 14: 12 14
Sorted array: 12 14 15 16 23

Process exited after 6.253 seconds with return value 0
Press any key to continue . . .
```

7.Heap Sort

i) Min Heap Sort

ii) Max Heap Sort