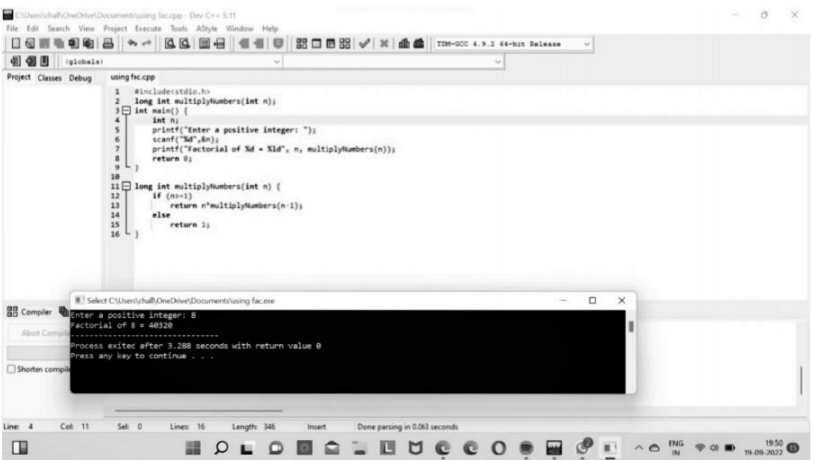
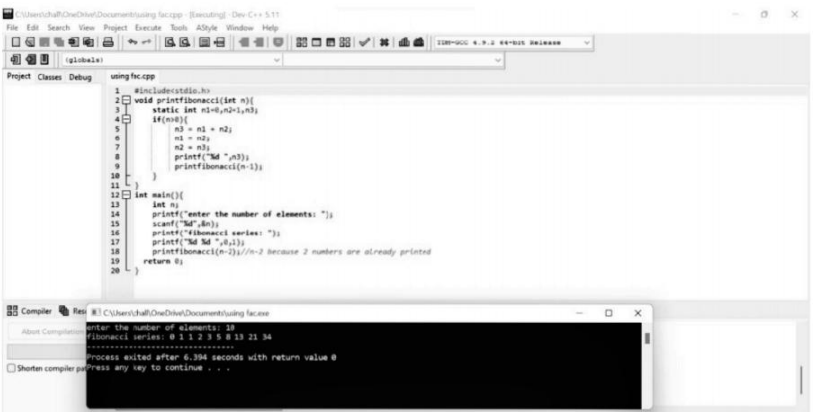
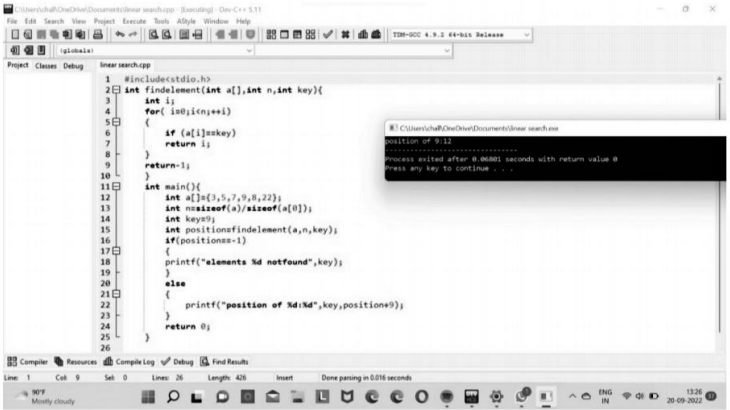


## EXPERIMENT:5(FACTORIAL USING OUTPUT)

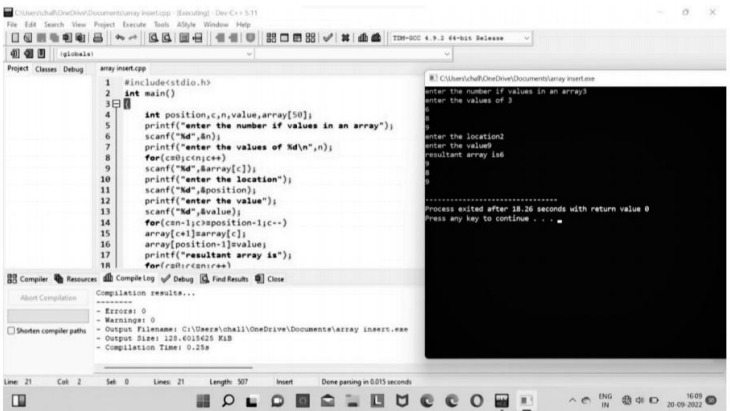


## EXPERIMENT:6(FIBONACCI USING OUTPUT)

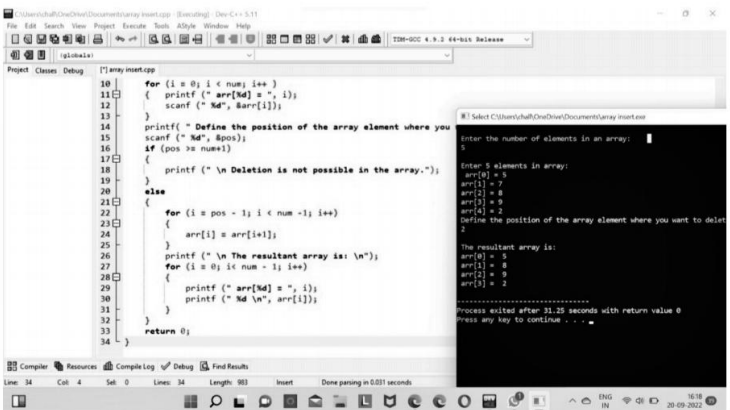




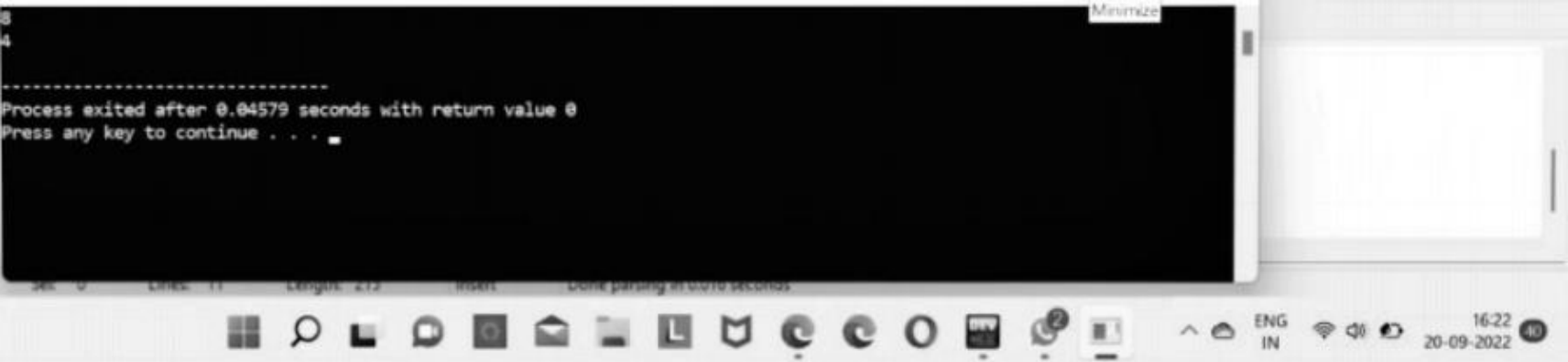
## ARRAY INSERTION(OUTPUT)



## ARRAY DELETION(OUTPUT)

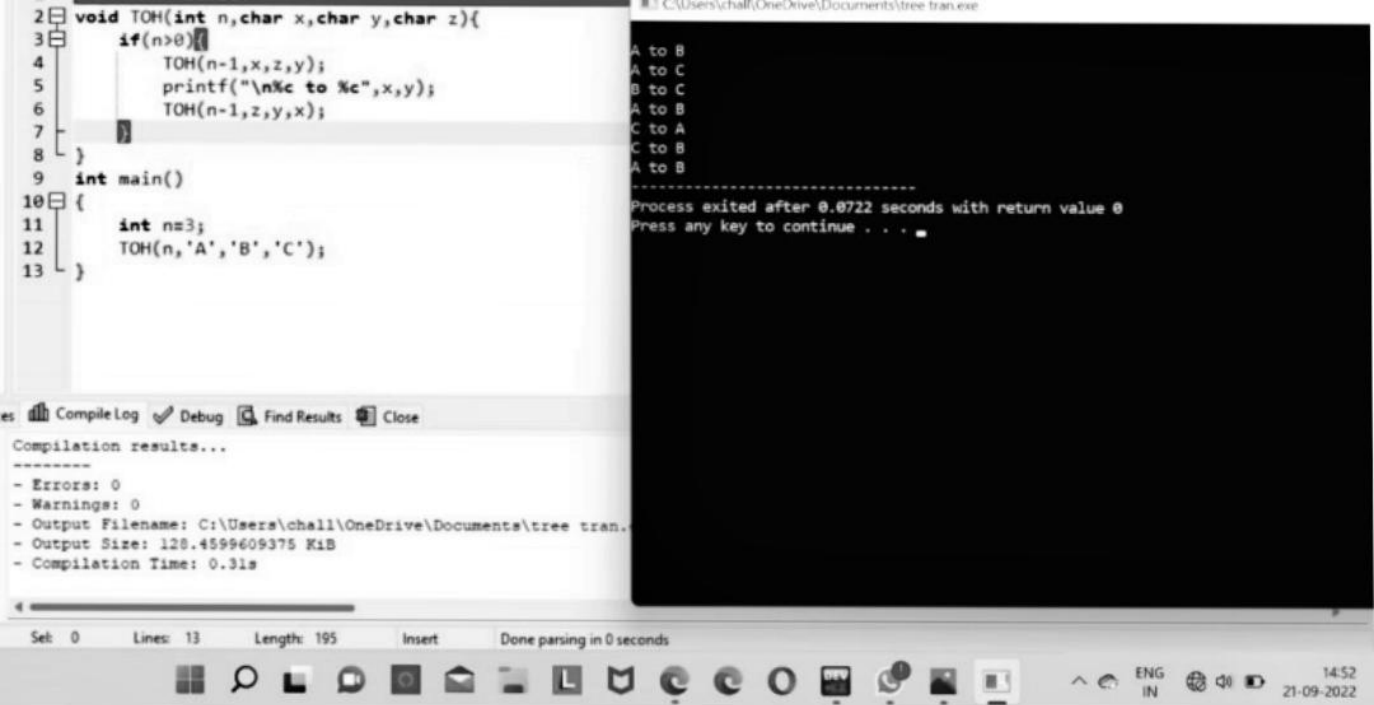


## ARRAY DISPLAY(OUTPUT)



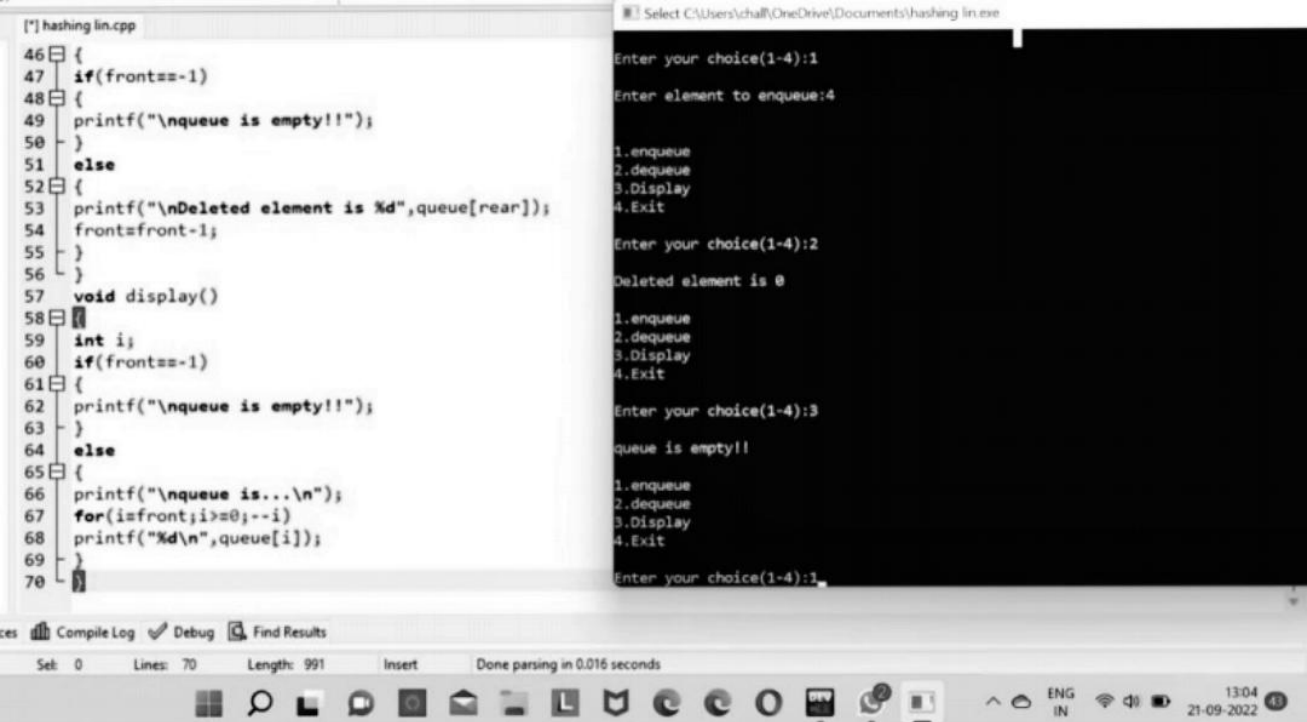
T:-8(LINEARSEARCH(OUTPUT))





T:12(STACK APPLICATION)





T:14(TREE TRANSVERSAL(OUTPUT))



```
C:\Users\ASUS\OneDrive\Documents\AVL trees.exe
4 2 1 3 7 5 8
After deletion: 4 2 1 7 5 8
.....
Process exited after 0.61 seconds with return value 0
Press any key to continue . . .
```

## EXPERIMENT:21(BFS(OUTPUT))

```
C:\Users\ASUS\OneDrive\Documents\Breadth.exe
Enter the number of vertices:4
Enter graph data in matrix form:
1 1 1 1
0 1 0 0
0 0 1 0
0 0 0 1
Enter the starting vertex:1
The node which are reachable are:
1 2 3 4
.....
Process exited after 26.89 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\ASUS\OneDrive\Documents\Depth.exe
Enter no. of vertices:4
Enter the adjacency matrix:
1 1 1 1
1 0 1 0
0 0 0 0
0 0 0 1
Enter the starting node:1
Distance of node0=1
Path=0<-1
Distance of node2=1
Path=2<-1
Distance of node3=2
Path=3<-0<-1
.....
Process exited after 35.38 seconds with return value 0
Press any key to continue . . .
```

## EXPERIMENT:23(DIJKSTRA ALGORITHM(OUTPUT))

```
C:\Users\ASUS\OneDrive\Documents\Dijkstra.exe
Distance from source to 1: 3
Distance from source to 2: 1
Distance from source to 3: 2
Distance from source to 4: 4
Distance from source to 5: 4
Distance from source to 6: 3
.....
Process exited after 0.5575 seconds with return value 0
Press any key to continue . . .
```

## EXPERIMENT:24(PRIM'S ALGORITHM(OUTPUT))

```
edge  weight
3 <-> 1  4
0 <-> 2  3
2 <-> 3  2
3 <-> 4  1
```

```
.....
Process exited after 0.6292 seconds with return value 0
Press any key to continue . . .
```

## EXPERIMENT:25(KRUKAL ALGORITHM(OUTPUT)

C:\Users\ASUS\OneDrive\Documents\Kruskal.exe

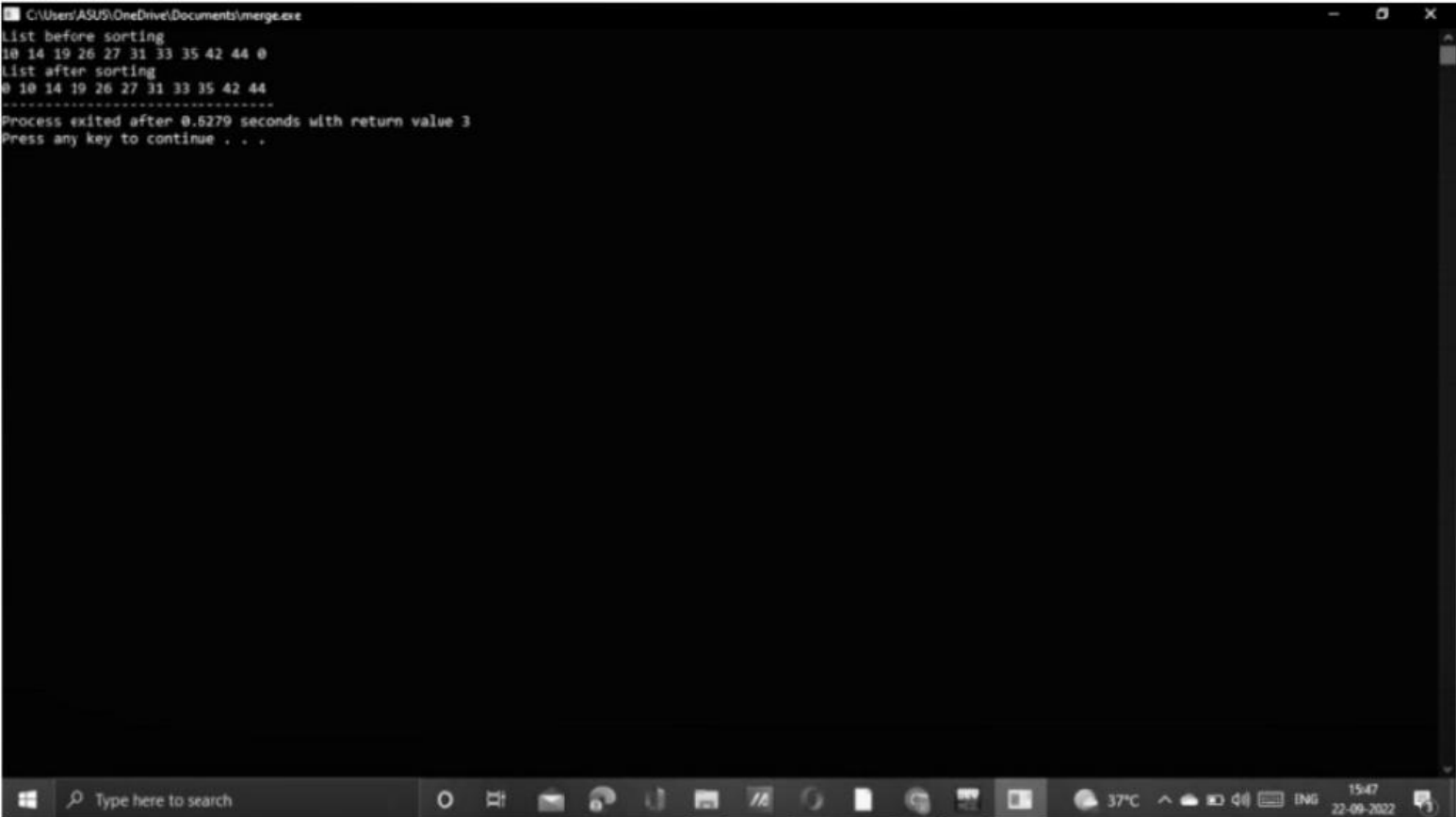
```
2 - 1 : 2
5 - 2 : 2
3 - 2 : 3
4 - 3 : 3
1 - 0 : 4
```

```
Spanning tree cost: 14
```

```
.....
Process exited after 0.9241 seconds with return value 23
Press any key to continue . . .
```



```
C:\Users\ASUS\OneDrive\Documents\merge.exe
List before sorting
10 14 19 26 27 31 33 35 42 44 0
List after sorting
0 10 14 19 26 27 31 33 35 42 44
.....
Process exited after 0.6279 seconds with return value 3
Press any key to continue . . .
```



EXPERIMENT:-18(QUICK SORT(OUTPUT))