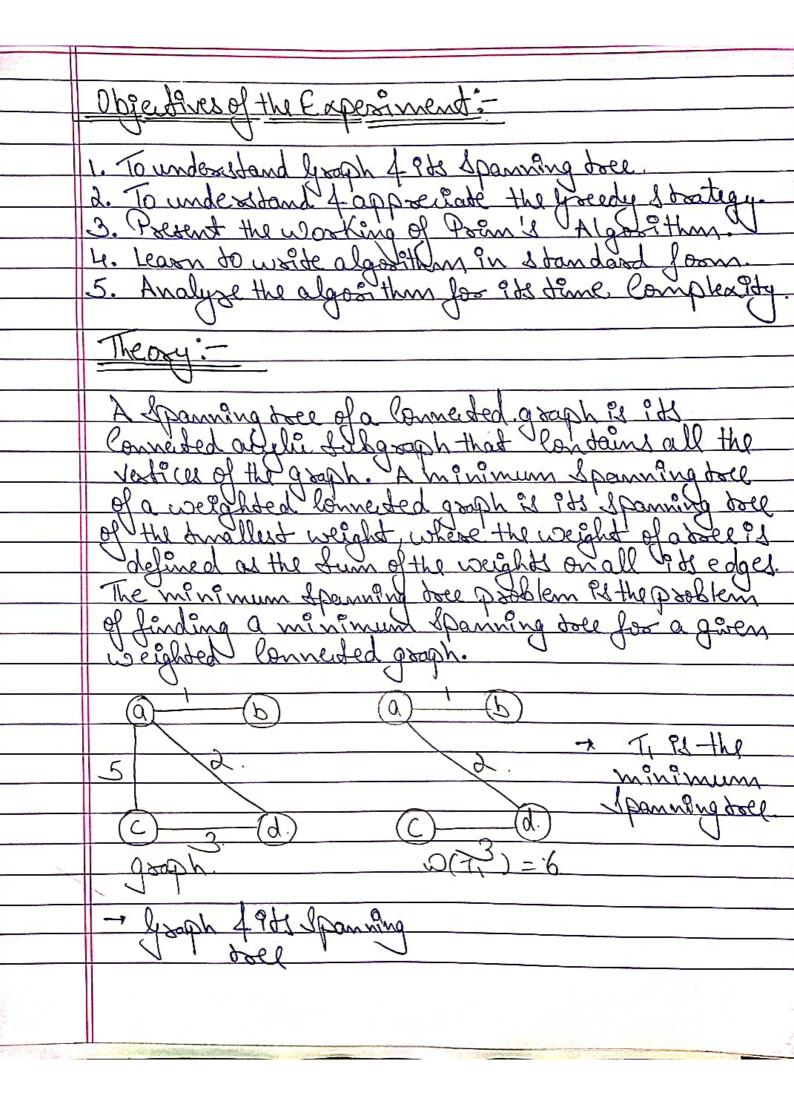
Problem Definition 6: Find the Tivinum last franning tree of a given under exted graph using Print algorithm



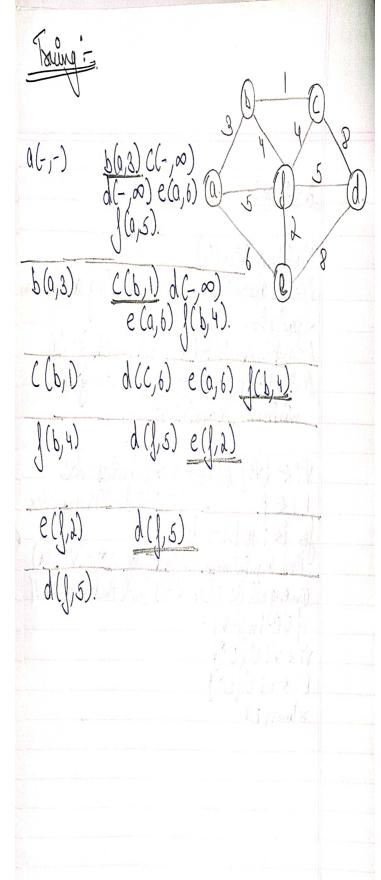
VI to [VO] the det of toel Vestiles Cambo
ET to pritialized with any vester Tind a minimum-weight edge ex = (Vx, 1)

among all the edges (V, V) full that Vist ?;

It + VT V | V*)

ET + ET V | ex }

return ET.



Code: # Prulude < Stdio. h> # Prulude < Stdlib. h> Prot a, b, V, V, N, E, f, Ne=1; Prot vesited C10]={0}, nem, nem(ost=0, lostG0][10]; Vold main() Print ("Finter the number of nodes:");

Jay ("% d", f. N);

Print (" N Enter the adjacency matrix:");

Jox (121; 1<= N; (++)

Jox (3=1; 1<= N; 1++) Jan (": d') + last [8] (97); 9 (last [6] (97=0) last [6] (97=0) verited [1]=1; print] ("In") while (ne < n) fox (ε=1, men =999; εζ=n; ε++)

// (νειθεά (ε) () ζ νων)

// (νειθεά (ε) () ζ νων) min=lost[0][j];

P= 1= (44) ? { (Vesed Ru] == 0 1/ vered [v] == 0) Paintf("In Edge %d: (%d %d) lost: %d")

winlost t = min;

Ver9 ted Cb]=1; lost la][b] = lost B][a]=999; print ("INTENIMEN lost = % d/n", minlost);

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Date:14/07/2022

Division:C

Term Work:6

Prim's Algorithm

Output:

```
Enter the number of vertices:6
Enter the adjacency matrix:
0 3 999 999 6 5
3 0 1 999 999 4
999 1 0 6 999 4
999 999 8 0 2
5 4 4 5 2 0

Edge 1:(1 2) cost:3
Edge 2:(2 3) cost:1
Edge 3:(2 6) cost:4
Edge 4:(6 5) cost:2
Edge 5:(6 4) cost:5
Minimum cost=15

Process returned 0 (0x0) execution time: 12.227 s
Press any key to continue.
```

Reference: * Keneth Bernan, Jerone Paul, Algorithm, language Tongrage.

* Thomas H Coomen, charles E. Linergon, Ronal L.

Rivert, Alford Stein, Introduction to algorithm

PHT 2nd & detion of onwords. Conclusion: In this termwork we learnt about Prim's.
algorithm dechnique of Purplementation of Ring
Alaborithm. we also karned lamputting time required for remark fiterative algorithm.