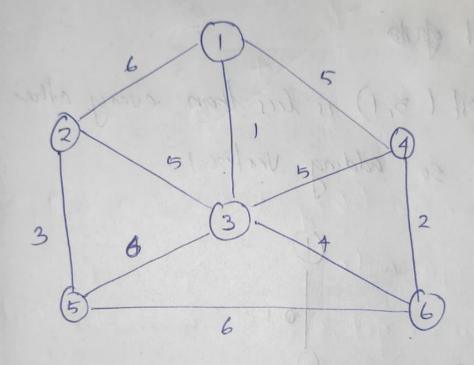
prim's Algorithm.



-> First we have to hemove the paintle edies and edies and loops, since there is no pountle tops and loops, we are moving to the next step.

s choosing aubiliary node. (are can select any node as arbitarray node)

Taking & 3 as arbitarray node.

d

> cheeling the outgoing adies of autitracy node and Select the edge & with less weight/cost. Good pado Cost (3,1) is less than every other made edie so adding Ventere 1 -> Next we have to find out the minimum edico from both vertex 1 and 3. this cost (3,6), is less than every other edje from verten 3 and

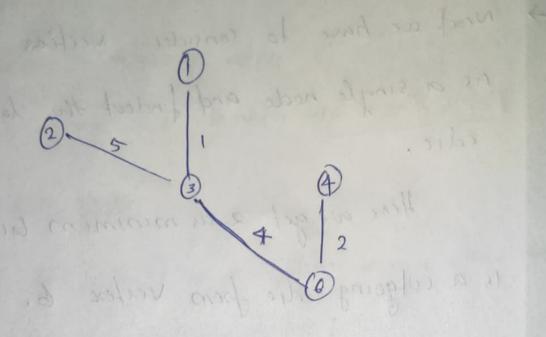
as a single node and findout the lowest cost edie.

Here ave get 2 as minimum bil 2 1s a outgoing edje from Vertex 6.

The cime of a serior of a seri

As a single node.

Now we got sas a minimum cost, but here we have 3 minimum cost, we can take nony one of the hear l'am taking the edie with connects ventere 3 and 2.

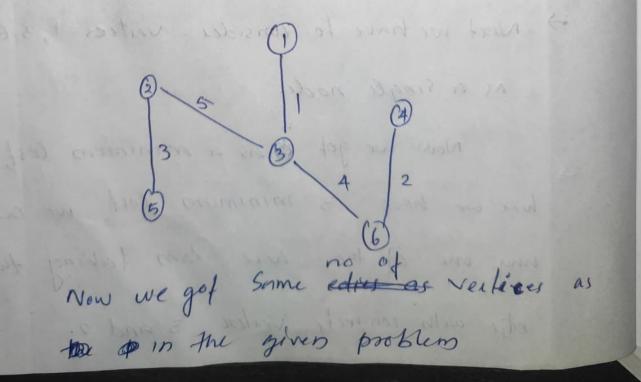


> Next we are taking vertices 1, 3, 6, 4, and 2 as

a single node.

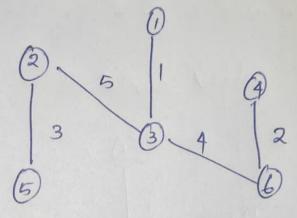
Here we get 3 as a minimum (ost, which

Connects vertex 2 and 5



And got n-1 edies, so stopping the process

Final output or minimum spinning tree.



So cost of minimum spanning True .

= Sum of edier" = 1+4+2+5+3